

THE BULLETIN

of the

North Carolina Department of Agriculture

L. Y. Ballentine, Commissioner

Number 134

March, 1954

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### North Carolina

# INSECTICIDE REPORT

for

January 1 - December 31, 1953

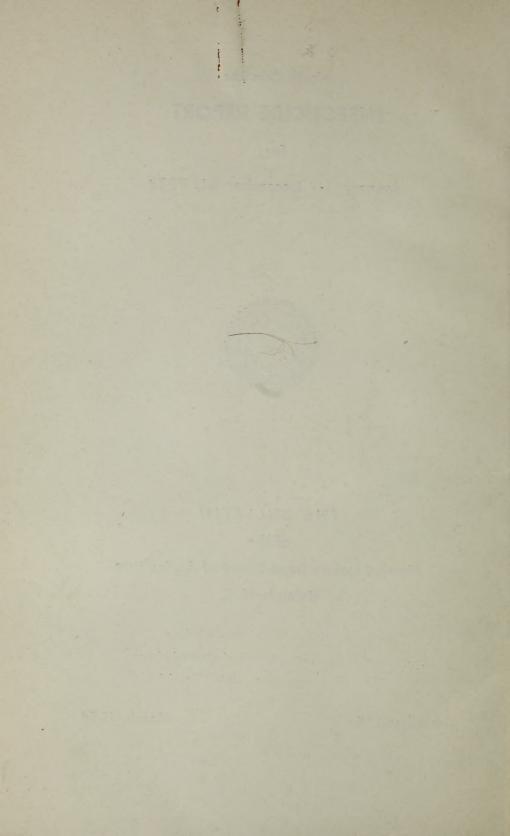


# THE BULLETIN of the North Carolina Department of Agriculture Raleigh, N. C.

L. Y. Ballentine, Commissioner
John L. Reitzel, Assistant Commissioner
E. W. Constable, State Chemist

Number 134

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#### **FOREWORD**

The original purpose of the Insecticide Report, of which this is the third annual issue, was to inform the public of the responsibilities and activities of the State Department of Agriculture in administering the Insecticide, Fungicide and Rodenticide Act.

Accordingly, the main content of the bulletin has dealt with the inspection and analysis of economic poisons, including lists of registrants under the law, and reports on the analyses of official samples.

Now an additional responsibility of a related nature has been imposed on the Department under the Aerial Crop-Dusting Law enacted by the 1953 General Assembly. This issue of the Insecticide Report, therefore, also includes information about the Crop-Dusting Law and Regulations and a list of persons and firms licensed under this law.

Certain other valuable information also is contained in this issue of the Insecticide Report. We especially call the attention of tobacco farmers to a timely article by Dr. Clyde F. Smith of N. C. State College on "Insecticides in Tobacco Production."

Commissioner of Agriculture

Raleigh, N. C.

#### Brief of North Carolina Insecticide Law

Administrative Officer

Information Required to Appear on Package Labels Commissioner of Agriculture, Raleigh, North Carolina.

- 1. The name and address of the guarantor.
- 2. The brand name or trademark.
- 3. The net weight or measure.
- 4. A guaranteed analysis statement showing:
  - a. The name and percentage of each active ingredient.
  - b. The total percentage of inert ingredients.
- Instructions for use, adequate for the protection of the public.
- A warning or caution statement adequate to prevent injury.
- 7. For economic poisons highly toxic to man:
  - a. The skull and crossbones.
  - The word "Poison" in red, on distinctly contrasting background.
  - c. An antidote for the poison.
- When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.

#### Other General Requirements:

General Requirements

- Strength and quality must not fall below that professed or claimed.
- 2. No false or misleading statement, design or other representation is permissible.
- 3. Imitations are not permitted.
- 4. Labeling may not refer to registration.
- 5. Labeling shall be legible and understandable.
- Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.
- 7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.

8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.

#### Registration

Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the Department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required.

Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product.

Inspection Tax An annual inspection tax of \$10.00 for each brand and each grade is required.

Method of Paying Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture.

Refusal or Cancellation of Registration Registration is subject to refusal or cancellation for cause and upon hearing.

Stop-Sale Orders

Goods not measuring up to requirements are subject to Stop-Sale Orders.

Short Weight

Short weight, in addition to above, is subject to penalty.

#### **Exempt From Penalties of Law Are:**

#### Exemptions

- 1. Carriers engaged in legal transporting.
- 2. Public official while performing official duties.
- 3. Manufacturers and shippers of products properly identified for experimental use only.
- 4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable.

NOTE: Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.

# Inspection and Analysis of Economic Poisons

An adequate supply of effective insecticides, fungicides and similar materials is as indispensable as are fertilizers in the production of necessary food, and fiber crops. Weed killers and defoliants are important adjuncts. The preservation of many crops and the control of domestic and industrial pests which generally affect the health and welfare of both human beings and animals are dependent upon these pesticides. While encouraging the development and distribution of reliable products to serve these needs, and with due regard generally for public health and welfare, it is the purpose of the economic poisons laws to protect the public from adulterated, misbranded and dangerous products, and legitimate manufacturers from unscrupulous competition.

In addition to requiring the registration of all economic poisons offered for sale in the State, the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947 (G. S., Article 4 A. Chapter 106), authorizes inspections and analyses and the publication of results of analyses based on official samples of these products sold within the state (G. S. 106-65.6, b. (2)). With other pertinent information, there is given in this issue of The Bulletin a list of registrants, a summary of registrations and detailed results of analyses of samples taken throughout the State by inspectors of the Department, for the calendar year 1953.

The terms "economic poison" or "pesticide," regardless of degree of toxicity, mean any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, or animal life or viruses (except viruses on or in living man or other animals) which the Commissioner of Agriculture shall declare to be a pest. As examples, the law, by definition, gives the following: Devices (exclusive of simple mechanical ones such as rat traps), insecticides, fungicides, rodenticides and herbicides. Other examples of specific nature are disinfectants, antiseptics and fungicides for use other than on living man or other animals; various repellents, weed killers, fly paper and other adhesive products whose action goes beyond simple mechanics; moth proofers, wood preservatives, other than common paints; mildew controls and seed fumigants and disinfectants.

- Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the Department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to reregistration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 5 and 6. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users, and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the Department's laboratories for analysis and as soon as this work is completed, individual reports are forwarded to manufacturers, dealers and users. As a further means of reporting, an issue of the Bulletin covering a year's work, as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the Analytical Division for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Z. B. Bradford, Eugene T. Hord, Jr., Delwin P. Johnson, Mrs. Rosa Kirby, Earnest L. Long, Chemists; Mrs. Elizabeth Powell, Secretary; C. A. Jackson, J. W. Davis, Lindsey Ennis, H. C. McPhail, Inspectors; Vernon Williams, Laboratory Assistant.

# A Brief Review of the Insecticides Which Have Been Developed Since World War II

By the Entomology Faculty
N. C. State College

This review is provided as general information on the various materials which are now used, have been used in the immediate past or are likely to be used in the near future to control insects in North Carolina. It should be borne in mind that the figures presented on toxicity to insects and higher animals do not by any means tell the whole story, which is an involved and complicated one. Adopted or recommended usage of an insecticide for a given insect is also general and no attempt is made to define the conditions, natural or economic, under which "control" may be accomplished. Toxicity to warm blooded animals is expressed in terms of milligrams per kilogram of body weight for acute oral toxicity (LD $_{50}$ ) to rats. Each figure is accompanied by the name of the source of this information.

Insecticides are taken up alphabetically for purposes of easy reference:

#### ALDRIN (Compound 118)

Chemical name: 1, 2, 3, 4, 10, 10-hexachloro-1, 4, 4a, 5, 8, 8a-hexahydro-1, 1, 4, 5, 8-endo-exo-dimethanonaphthalene.

A chlorinated hydrocarbon produced by the Shell Chemical Corporation. Principal use is against insects occurring in the soil and against pests of field and truck crops, particularly beetles and beetle larvae and grass-hoppers.

Toxicity to insects—approximately 6 times that of DDT.

Toxicity to warm-blooded animals-67 mg/Kg (Lehman)

This material is one of the least residual of the chlorinated hydrocarbons, an advantage from the standpoint of hazzard of harmful residues on food and feed crops.

#### ARAMITE (88R)

Chemical name: Beta-chloroethyl-beta (p. tertiary butyl phenoxy)-alphamethyl ethyl sulphite.

An organic sulphur compound produced by the United States Rubber Company.

Used against spider mites on horticultural crops and cotton.

An acaricide, generally non-toxic to insects.

Toxicity to warm-blooded animals-6300 mg/Kg (Lehman).

#### BENZENE HEXACHLORIDE

Chemical name: Hexachlorocyclohexane, a mixture of isomers.

A chlorinated hydrocarbon developed in England.

Has been used against soil insects and pests of field and truck crops particularly beetles and beetle larvae and sucking insects. Used against cotton boll weevil in areas where cotton is not in rotation with tobacco, potatoes or peanuts.

Toxicity to insects—less than DDT.

Toxicity to warm-blooded animals (acute oral toxicity to rats)— $600 \, \mathrm{mg/Kg}$  (Lehman).

Because this material imparts an undesirable flavor to many food crops, it has come into disfavor in the United States.

# CHLORDANE (Velsicol 1068)

Chemical name: 1, 2, 4, 5, 6, 7, 8-octachloro-4, 7-methano-3a, 4, 7, 7a-tetrahydroindane.

A chlorinated hydrocarbon produced by the Velsicol Corporation.

Used mainly against soil insects and household pests.

Toxicity to insects approximately two and one-half times that of DDT.

Toxicity to warm-blooded animals-457mg/Kg (Lehman).

#### CHLORTHION

Chemical name: 0-0-dimethyl-0-3-chloro-4 nitrophenyl thiophosphate.

An organic phosphate developed in Germany.

Used experimentally on cotton and horticultural crops mainly against aphids and spider mites.

Toxicity to insects approximately 30 times that of DDT.

Toxicity to warm-blooded animals—1500 mg/Kg (Dubois et al).

A new material of interest because of high toxicity to insects and low mammalian toxicity.

#### DDT

Chemical name: p.p'-dichlorodiphenyltrichloroethane

A chlorinated hydrocarbon developed in Switzerland.

Has been used extensively against insects attacking man and animals and against crop pests, particularly the larvae of moths and butterflies.

Toxicity to warm-blooded animals—250 mg/Kg (Lehman)

Development of strains of houseflies and certain other insects resistant to chlorinated hydrocarbons and the discovery that DDT is excreted in milk has resulted in a decrease in usefulness in the home and barn.

# DEMETON (E-1059 or Systox)

Chemical name: O, O-diethyl-0-2-(ethylmercapto)-ethyl thiophosphate.

An organic phosphate developed in Germany.

Used as a systematic and foliage treatment against aphids and spider mites on cotton and certain horticultural crops.

Toxicity to insects—approximately 30 times that of DDT.

Toxicity to warm-blooded animals-14 mg/Kg (Pittsburgh Chem. Co.).

#### DIELDRIN

#### (Compound 497)

Chemical name: 1, 2, 3, 4, 10, 10-hexachloro-6, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4, 5, 8-endo-exo-dimethanonaphthalene.

A chlorinated hydrocarbon produced by the Shell Chemical Corporation. Used against soil insects and pests of field and truck crops, particularly beetles and beetle larvae.

Toxicity to insects—approximately 8½ times that of DDT.

Toxicity to warm-blooded animals—87 mg/Kg (Lehman)

High degree of insect toxicity and long residual activity are advantageous in long-term soil insect control.

#### ENDRIN

#### (Compound 269)

Chemical name: 1, 2, 3, 4, 10, 10-hexachloro-6, 7, epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-octahydro-1, 4, 5, 8-endo-endo-dimethano-naphthalene, a stereoisomer of dieldrin.

A chlorinated hydrocarbon produced by the Shell Chemical Corporation. Used experimentally against field and truck crop insects, including both beetles and moth larvae.

Toxicity to insects—approximately 8½ times that of DDT.

Toxicity to warm-blooded animals-10-12/mg/Kg (Shell Chemical Co.).

A highly toxic chlorinated hydrocarbon available to date only in liquid formations.

#### EPN

Chemical name: Ethyl p-nitrophenyl thionobenzenephosphonate.

An organic phosphate produced by DuPont.

Used against scale insects, spider mites and plum curculio.

Toxicity to insects—approximately 4 times that of DDT.

Toxicity to warm-blooded animals-45mg/Kg (DuPont).

# HEPTACHLOR (Velsicol 104)

Chemical name: 1, 4, 5, 6, 7, 8, 8-heptachloro-4, 7-methano-3a, 4, 7, 7a-tetrahydroindene.

An organic chloride produced by the Velsicol Corporation.

Used against soil insects and pests of field and truck crops, particularly beetles and beetle larvae.

Toxicity to insects—approximately 8 times that of DDT.

Toxicity to warm-blooded animals—90 mg/Kg (Lehman)

Residual properties are an advantage against soil insects.

#### ISODRIN

#### (Compound 711)

Chemical name: 1, 2, 3, 4, 10, 10-hexachloro-1, 4, 4a, 5, 8, 8a-hexahydro-1, 4, 5, 8-endo-endo-dimethanonaphthalene, a stereoisomer of aldrin.

A chlorinated hydrocarbon produced by the Shell Chemical Corporation. Used experimentally against pests of field and truck crops, particularly beetles and beetle larvae and grasshoppers.

Toxicity to insects—approximately 5 times that of DDT.

Toxicity to warm-blooded animals—12-17 mg/Kg. (Shell Chemical Co.).

#### LINDANE

Chemical name: Gamma hexachlorocyclohexane, the most insecticidally active component of benzene hexachloride.

A chlorinated hydrocarbon produced in the United States by several manufacturers.

Used mainly against aphids, against soil insects as a seed treatment or in transplanting water and against insects affecting man and animals.

Toxicity to insects—approximately 8 times that of DDT.

Toxicity to warm-blooded animals-125 mg/Kg (Lehman).

The hope that this material would eliminate the hazard of off-flavor associated with benzene hexachloride was not fulfilled. However, owing to its greater insect toxicity it can be used in much smaller quantities. It is not excreted rapidly by warm-blooded animals, so does not present a serious problem in dairy production. However, it is stored in animal fat.

#### MALATHION

Chemical name: Dimethyl dithiophosphate of diethyl mercaptosuccinate.

An organic phosphate produced by the American Cyanamid Company.

Used against aphids, spider mites and certain other pests of horticultural crops.

Toxicity to insects—approximately 30 times that of DDT.

Toxicity to warm-blooded animals 1500 mg/Kg (Dubois et al)

High toxicity to insects and low mammalian toxicity are advantageous properties of this material.

#### METHOXYCHLOR

Chemical name: Dimethoxy diphenyltrichloroethane, an analogue of DDT.

A chlorinated hydrocarbon produced by duPont.

Used principally against insects affecting livestock and forage crops.

Toxicity to insects-less than DDT.

Toxicity to warm-blooded animals-6000 mg/Kg (Lehman).

This is the least toxic of the chlorinated hydrocarbon insecticides to warm-blooded animals.

#### METHYL PARATHION

Chemical name: O, O-dimethyl O-paranitrophenyl thiophosphate, an analogue of parathion.

An organic phosphate developed in Germany.

Used experimentally against aphids, spider mites and certain other insects on field and horticultural crops.

Toxicity to insects—approximately 30 times that of DDT.

Toxicity to warm-blooded animals 15.2 mg/Kg (Lehman).

# PARATHION (E-605)

Chemical name: O, O-diethyl O-paranitrophenyl thiophosphate.

An organic phosphate developed in Germany.

Used against aphids, spider mites and certain other insects on field and horticultural crops.

Toxicity to Insects—approximately 50 times that of DDT.

Toxicity to warm-blooded animals-3 mg/Kg. (Lehman).

One of the most toxic insecticides in use today.

#### STROBANE

Chemical name: A chlorinated turpene, exact chemical composition not fully determined.

A chlorinated hydrocarbon produced by the B. F. Goodrich Chemical Co.
Used experimentally on cotton and truck crops particularly against beetles and beetle larvae.

Toxicity to insects—approximately 2½ times that of DDT.

Toxicity to warm-blooded animals—between 100-400 mg/Kg. (Goodrich Chemical Co.).

# TDE (DDD)

Chemical name: Tetrachlorodiphenyl ethane.

A chlorinated hydrocarbon produced by Rohm and Haas.

Used against crop pests, particularly moth larvae and against household pests.

Toxicity to insects—approximately the same as DDT.

Toxicity to warm-blooded animals 3,400 mg/Kg (Lehman).

More volatile and less residual than DDT. Presents same problems with resistant insects, though much less toxic to warm-blooded animals.

#### TEPP

Chemical name: Tetraethylpyrophosphate.

An organic phosphate developed in Germany.

Used against aphids on horticultural crops.

Toxicity to insects—approximately 60 times that of DDT.

Toxicity to warm-blooded animals-1.2 mg/Kg (Lehman).

This is the most toxic insecticide in use today. It is the active constituent in commercial preparations of HETP and like this material, breaks down rapidly in water sprays and has practically no residual action in the field.

#### **TOXAPHANE**

Chemical name: Octachlorocamphene, the exact chemical structure is not fully known.

A chlorinated hydrocarbon produced by the Hercules Powder Company.

Used extensively against pests of crops and livestock.

Toxicity to insects—approximately twice that of DDT.

Toxicity to warm-blooded animals—69 mg/Kg (Lehman).

A material effective against a wide range of insects and with long residual activity.

# Insecticides in Tobacco Production

#### DR. CLYDE F. SMITH

Head of Entomology, N. C. State College

Tobacco brings approximately \$460,000,000 a year to North Carolina farmers, thus accounting for about half of their cash income. Insects, if not controlled, would normally destroy a large proportion of this crop in the plant beds, at time of transplanting or while the tobacco is growing in the field. At the present time, the only satisfactory means of controlling insects is through the use of insecticides. However, it is necessary to use them properly in order to obtain satisfactory control of the pest and to avoid harmful residues on the tobacco. Insecticides may cause off-flavors in the cigarettes.

Toxaphene, benzene-hexachloride and systox should not be used on tobacco. They impart objectionable flavor and aroma to tobacco when applied to the foliage. BHC also imparts objectionable flavor characteristics when applied to the soil or to a crop in rotation with tobacco.

Lead arsenate should not be used for hornworm control. We have insecticides which give much better control of hornworms than does lead arsenate and which do not leave the poisonous residues of lead and arsenic on the tobacco.

The following insecticides are recommended for use in controlling insect pests of tobacco: TDE, endrin, cryolite, DDT, aldrin, parathion, and TEPP. All of these materials have been tested and it has been found that they do not impart an objectionable flavor or aroma to the tobacco. Also, when used properly and as recommended, there is no danger of harmful residues being left on the tobacco when it is made into cigarettes.

All insecticides are poisonous and should be treated as such. If you are in doubt about the dangers or the safety precautions for any insecticide, get reliable information before using or handling it.

Parathion, TEPP and endrin are very toxic to warm-blooded animals and are especially dangerous; therefore, special care should be used in handling these materials and when applying them to tobacco. They should be used only in sprayers or dusters so designed and operated that the operator can stay out of the spray or dust and avoid contact with treated plants. Do not sucker, top or prime tobacco immediately after applying dusts or sprays of parathion, TEPP, or endrin.

In all cases, read and observe the precautions on the container lable. The indiscriminate and excessive use of any insecticide on tobacco should be avoided. For safety while handling any insecticide, the following precautions should be followed:

- 1. Do not breathe dust or mist.
- 2. Keep insecticides off skin and out of eyes, and wash hands and face at frequent intervals.
  - 3. Do not get any poisons in the mouth.
- 4. Before opening containers of insecticide, read and follow precautions on lables.

## Pesticide-Fertilizer Mixtures

Interest in pesticide-fertilizer mixtures for use in the control of soilborne pests has expanded. By regulation promulgated under the fertilizer law, provision for registration and sale of four additional pesticidal chemicals—Aldrin, Dieldrin, Heptachlor and Toxaphene—have been added to the former two—Chlordane and DDT. These regulations are given in detail in the last paragraphs of this section.

The advantages, both practical and economic, of putting both pesticides and fertilizer into the soil in a single operation are obvious. There are to be taken into account, however, the disadvantages and dangers involved, such as restricted applicability, the possibility of misuse, incompatability and short life of some pesticides when mixed with fertilizers, the danger of toxic levels of pesticides being built up in the soil, the development of off-flavor and bad odors particularly in root crops, and the danger of translocation of poisons from soils to plants, then to animals and to man.

It is obvious that the recommendations for use of pesticide-fertilizer mixtures in the soil pose many critical problems. These should not function to restrict sound progress. However, they do dictate a conservative policy, subject to expansion or modification from time to time as additional basic facts are available. The policy which has been followed and the line of thinking on which it is based are indicated in the commitments which follow.

Recommendation by the N. C. Agricultural Experiment Station, Raleigh, N. C., December 14, 1948:

"Because of the lack of sufficient information on these problems and in order to prevent possible damage or loss of money to either the farmer or the fertilizer producer, it is recommended that the Commissioner of Agriculture should not accept for registration and subsequent sales any mixture of insecticides and fertilizer. Experimental use of such mixtures under proper supervision and direction is to be encouraged so that information may be obtained to solve the problems involved in the use of such mixtures."

Resolution by the Association of Economic Poisons Control Officials, Annual Conference, Washington, D. C., October 6, 1951; endorsed by the Experiment Station Section, Association of Land Grant Colleges and Universities, Houston, Texas, Meeting, November 13, 1951:

"In view of the immediate and possible long lasting effects of the application of misapplication of pesticides, be it resolved, that the Economic Poisons Control Officials do not register, permit the sale or distribution of pesticide-fertilizer mixtures, for field crops or horticultural use unless such mixtures have been formally approved by the officials of the Agricultural Experiment Station or other officials vested with such responsibility by law in their State."

Letter to fertilizer dealers, by L. Y. Ballentine, Commissioner of Agriculture, May 16, 1950:

"To Fertilizer Manufacturers and Dealers selling fertilizer in North Carolina

"In order that the future of the peanut industry in North Carolina not be jeopardized by improper insect control practices, your attention is called to the following:

- "1. Experiments conducted by the North Carolina Agricultural Experiment Station have shown that a disagreeable taste and odor have resulted from the use of Benzene Hexachloride to control insects attacking peanuts.
- "2. The residue of Benzene Hexachloride used on cotton for boil weevil control may be sufficient to produce unfavorable effects on peanuts grown in the rotation.
- "3. Representatives of the North Carolina Agricultural Experiment Station, Extension Service, and State Department of Agriculture have recently conferred on this subject. The group considers Benzene Hexachloride, the technical grade or the purified form known as lindane, unsafe for insecticidal treatment for peanuts. This is in agreement with conclusions reached by a similar group from Virginia who met a few days ago. It is also in accord with a recent resolution passed by the Virginia-Carolina Peanut Association.
- "4. On cotton grown in rotation with peanuts, recommended materials other than BHC should be used.
- "5. As new information on this program is developed, the recommendations may be modified. We will keep you advised of any significant findings on this important subject.

"We solicit the cooperation of the fertilizer industry on this important problem affecting our peanut growers."

#### REGULATIONS

Insecticides In Fertilizers. The inclusion of technical chlordane, aldrin, dieldrin, heptachlor or toxaphene in fertilizers offered for sale in North Carolina is permitted under the following conditions:

- (a) All manufacturers, formulating and offering for sale in North Carolina fertilizers containing the insecticides technical chlordane, aldrin, dieldrin, heptachlor or toxaphene, shall register such brands or mixtures with the North Carolina Department of Agriculture.
- (b) Each bag of fertilizer must bear a RED tag, size 31/4 inches by 61/4 inches, with the following information printed thereon:

#### CAUTION

This fertilizer contains ...... pounds of (name of insecticide) per 100 pounds of fertilizer.

#### NOTICE — IMPORTANT — NOTICE

Experiments and surveys have shown that this insecticide when applied with fertilizer at planting time may give some control of wireworms and/or

southern corn rootworms and/or white fringed beetle. It does not effectively control the corn billbug. In experimental work insecticide-fertilizer mixtures have been applied immediately after mixing. The effect of the combination on the insecticide or on the fertilizer components, if left to stand, is not known.

Odor, off flavor, stunting of crops and other damage may result from the use of organic insecticides in this manner.

#### DDT in Fertilizers.

- (1) All manufacturers formulating and offering for sale in North Carolina fertilizers containing the insecticide DDT shall register such brands or mixtures with the North Carolina Department of Agriculture.
- (2) Each bag of fertilizer containing DDT must bear a RED tag, size 3½ x 6¼ inches, with the following information printed thereon.

#### CAUTION

This fertilizer contains ...... pounds of technical DDT per 100 pounds of fertilizer.

Fertilizer mixtures containing not more than ½ or 1 pound of technical DDT per 100 pounds of fertilizer are recommended for use only where the white fringed beetle is present and only on specific advice of a Federal or State entomologist. DDT or fertilizer containing DDT should not be used on the soil after a maximum of 15 pounds of DDT per acre has been applied.

The North Carolina Agricultural Experiment Station makes no general recommendation for the inclusion of insecticides in fertilizers. Indiscriminate use of certain insecticides may cause stunting of crops, off-flavors and odors, or other damage.

(Adopted July 25, 1946; Revised August 7, 1947; Amended June 20, 1951, October 15, 1951, June 17, 1952 and June 22, 1953.)
(Authority: G. S. 106-50.15.)

## **Economic Poisons Registrants, 1953**

- ACME FERTILIZER COMPANY Box 330 Wilmington, North Carolina
- ACME QUALITY PAINTS (Sherwin Williams Company) 8250 S. Aubin Detroit 11, Michigan
- ADCO, INCORPORATED 900 W. Main Street Sedalia, Missouri
- AERO-SANITATION COMPANY 111 W. Pacific Avenue St. Louis, Missouri
- AGRICULTURAL SPECIALTIES 10219 Denton Drive Dallas, Texas
- AIROSOL COMPANY 823 Main Street Neodosha, Kansas
- ALCATRAZ COMPANY, INC. 1900 Ellen Road Richmond 20, Virginia
- ALLIED CHEMICAL & DYE CORP. Nitrogen Division 40 Rector Street New York 6, New York
- ALLIED CHEMICAL & DYE CORP. General Chemical Division 40 Rector Street New York 6, New York
- ALLIED CHEMICAL & DYE CORP. Solvay Division Box 271 Syracuse 1, New York
- ALLIED DRUG PRODUCTS COMPANY
  16th & Gulf Streets
  Chattanooga, Tennessee
- ALUMINUM COMPANY OF AMERICA 3300 Missouri Avenue East St. Louis, Illinois
- AMERICAN AGRICULTURAL CHEM-ICAL CO. 50 Church Street New York 7, New York
- AMERICAN CHEMICAL COMPANY 933 North 19 Street Birmingham, Alabama
- AMERICAN CHEMICAL PAINT CO. Ambler Pennsylvania
- AMERICAN CYANAMID COMPANY 30 Rockefeller Plaza New York 20, New York
- AMERICAN LUMBER & TREATING CO. 332 South Michigan Avenue Chicago 4, Illinois
- AMERICAN OIL COMPANY American Building Baltimore 2, Maryland

- AMERICAN SCIENTIFIC LABORA-TORIES, INC. 4001 N. Sherman Avenue Madison, Wisconsin
- ANDERSON & SPILMAN W. Walnut Street Danville, Kentucky
- A-PENN OIL COMPANY 808 Butler Savings Building Butler, Pennsylvania
- APEX CHEMICAL COMPANY
  Apex
  North Carolina
- ARMOUR AND COMPANY Union Stock Yards Chicago 9, Illinois
- ARNOLD, INC. 116 N. Main Street Charles City, Iowa
- ASHCRAFT-WILKERSON COMPANY Trust Company of Georgia Building Atlanta, Georgia
- ATLA CHEMICAL COMPANY Box 1761 Greensboro, North Carolina
- ATLANTIC & PACIFIC TEA CO., THE GREAT 420 Lexington Avenue New York 17, New York
- ATLAS CHEMICAL CORPORATION Box 169 Waynesboro, Georgia
- B & D CHEMICAL LABORATORIES 1102 Union Road, Box 1255 Gastonia, North Carolina
- BAN-A-BUG COMPANY E. Water Street Washington, North Carolina
- BARKER, MOORE & MEIN COMPANY 541 N. Orianna Street Philadelphia 23, Pennsylvania
- BAUER & BLACK (Division of Kendall Company) 309 W. Jackson Boulevard Chicago 6, Illinois
- BERK, F. W. & COMPANY, INC. Wood Ridge Division Wood Ridge, New Jersey
- BERLOU MANUFACTURING COM-PANY 421 Monroe Street Marion, Ohio
- BEST EXTERMINATING SERVICE Box 631 Durham, North Carolina
- BLACKMAN STOCK MEDICINE COMPANY 717 E. Main Street Chattanooga, Tennessee
- BLACK PANTHER COMPANY, INC. Box 132 Sanford, North Carolina

- BLITZ-FOG COMPANY 310 N. Water Street Milwaukee, Wisconsin
- BLUE BALL CHEMICAL COMPANY 2504 Kuhl Avenue Orlando, Florida
- BOHLENDER PLANT CHEMICALS Tipp City Ohio
- BONIDE CHEMICAL COMPANY 382 N. Genesee Street Utica 4, New York
- BOSTWICK LABORATORIES, INC. 706 Bostwick Avenue Bridgeport 5, Connecticut
- BOYER CHEMICAL LABORATORY COMPANY 2232 S. Wabash Avenue Chicago 16, Illinois
- BOYLE-MIDWAY, INC. 22 E. 40th Street New York 16, New York
- BRIDGEPORT BRASS COMPANY 30 Grand Street Bridgeport 2, Connecticut
- BUG-A-BOO PRODUCTS, INC. 3rd and Grove Dover, New Hampshire
- BUG-A-ROO, INC. 1911½ Pacific Avenue Dallas, Texas
- BURRELL DUGGER COMPANY 229 E. South Street Indianapolis 25, Indiana
- CALIFORNIA SPRAY-CHEMICAL CORP. Lucas & Ortho Way Richmond, California
- CANDLE-LITE CHEMICAL COM-PANY 314 S. W. 8th Avenue Miami 36, Florida
- CAPE FEAR CHEMICALS, INC. Box 543 Elizabethtown, North Carolina
- CARAJON CHEMICAL COMPANY Box 167 Fremont, Michigan
- CARBOLA CHEMICAL COMPANY Natural Bridge New York
- CARBOLINEUM WOOD PRESERVING COMPANY 528 W. Highland Avenue Milwaukee 3, Wisconsin
- CARDINAL CHEMICAL CORP. 325 Bainbridge Street Philadelphia 47, Pennsylvania
- CAROLINA CHEMICALS, INC. Box 128 West Columbia, South Carolina
- CAROLINA FEED STORE 279 E. Main Street Gastonia, North Carolina

- CARROLL CHEMICAL COMPANY 2300 Block Hollins Street Baltimore, Maryland
- CARTER INSECTICIDE & CHEMICAL COMPANY Wallace North Carolina
- CASCO PRODUCTS CORPORATION 945 Main Street Bridgeport, Connecticut
- C-B DRUG COMPANY 222-224 S. College Street Charlotte, North Carolina
- C & C LABORATORIES Box 2136 Dallas, Texas
- CEDAR HILL FORMULAE COMPANY 234 Steele Street New Britain, Connecticut
- CENTRAL CHEMICAL CORPORATION
  49 North Jonathan Street
  Hagerstown, Maryland
- CENTRAL CHEMICAL CORPORA-TION Box 532 Lebanon, Pennsylvania
- CERASEAL CHEMICAL CORPORA-TION 66 E. 23rd Street Chicago Heights, Illinois
- CHAMBERS-GODFREY MANUFACTURING COMPANY 302-4 Broadway Martin, Tennessee
- CHAPMAN CHEMICAL COMPANY Box 3158 Mallory Station Memphis, Tennessee
- CHAPMAN, M. A. & SON Canton North Carolina
- CHESTER CHEMICAL CORPORATION 2732 Sixth Avenue South St. Petersburg, Florida
- CHIPMAN CHEMICAL COMPANY Bound Brook New Jersey
- CLEAN HOME PRODUCTS, INC. 2029 Clybourn Avenue Chicago 14, Illinois
- CLINTON WHOLESALE COMPANY Box 718 Clinton, North Carolina
- COLONIAL CHEMICAL COMPANY Box 3302 711 Okeechobee Road West Palm Beach, Florida
- COMMON SENSE MANUFACTURING COMPANY 1392 Niagara Street Buffalo 13, New York
- COOK CHEMICAL COMPANY 2500 Summit Street Kansas City, Missouri

- COOPER, WM. & NEPHEWS, INC. 1909 N. Clifton Avenue Chicago 14, Illinois
- COPPO COMPANY, INC., THE 2342 S. Lauderdale, Box 3565 Memphis, Tennessee
- CORN NOX PRODUCTS COMPANY 54 Holland Street Asheville, North Carolina
- CORONA CHEMICAL DIVISION (Pittsburgh Plate Glass Co.) 235 E. Pittsburgh Avenue Milwaukee 1, Wisconsin
- COWLEY, S.-L. MANUFACTURING COMPANY 708 W. McAlaster Street Hugo, Oklahoma
- CRISP, S. A. CANINE COMPANY Blacksburg South Carolina
- CUDAHY PACKING COMPANY, THE Union Stock Yards Omaha 7, Nebraska
- CUPRINOL DIVISION (Darworth, Inc.) S. Hopmeadow Street Simsbury, Connecticut
- CURRAN, FRANK J. COMPANY 8101 S. Main Street Downers Grove, Illinois
- DAIRY SPECIALTY COMPANY 335 S. Davie Street Greensboro, North Carolina
- DALY-HERRING COMPANY Municipal Airport Kinston, North Carolina
- DAVIS MANUFACTURING COMPANY 115 W. Jackson Avenue Knoxville, Tennessee
- d-CON COMPANY, INC., THE 112 E. Walton Street Chicago, Illinois
- DE-BUG-ER, INC. 632 N.W. Washington Avenue Madison, Wisconsin
- DE PREE COMPANY 130 Central Avenue Holland, Michigan
- DeSOTA CHEMICAL COMPANY
  N. DeSoto Avenue
  Arcadia, Florida
- DIANOL, INC. 4760 Freemont Terrace South St. Petersburg, Florida
- DILL COMPANY, THE
  Washington Street & McKinley Avenue
  Norristown, Pennsylvania
- DIOPTRON COMPANY Box 1313 Milwaukee, Wisconsin
- DOGGETT-PFEIL COMPANY 681 Morris Turnpike Springfield, New Jersey

- DOLGE, C. B. COMPANY W. Ferry Lane Westport, Connecticut
- DOUGLAS CHEMICAL COMPANY Box 5012 Richmond 20, Virginia
- DOUGLAS CHEMICAL & SUPPLY COMPANY 620 E. 16th Avenue North Kansas City, Missouri
- DOW CHEMICAL COMPANY Midland Michigan
- du PONT de NEMOURS & COMPANY, E. I. Wilmington, Delaware
- DUNAWAY, JUDSON CORPORATION Third & Grove Streets Dover, New Hampshire
- EAGLE PRODUCTS COMPANY, INC. Box 8127 Chattanooga, Tennessee
- ECKERD DRUGS, INC. 128 N. Tryon Street Charlotte, North Carolina
- EDWARDS-COUNCILOR COMPANY 121 Colley Avenue Norfolk 7, Virginia
- ELECTROCRAFT, INC. 426 Empire Building Milwaukee, Wisconsin
- ELECTROLUX CORPORATION 500 Fifth Avenue New York, New York
- EL VAMPIRO SALES, INC. Chehalis Washington
- EMERY INDUSTRIES, INC. 4300 Carew Tower Cincinnati, Ohio
- ESSO STANDARD OIL COMPANY 15 W. 51st Street New York 19, New York
- FAESY & BESTHOFF, INC. 325 Spring Street New York 13, New York
- FAIRFAX BIOLOGICAL LABORA-TORY Willowbrook Road Clinton Corners, New York
- FARMERS COOPERATIVE EXCHANGE, INC. Statesville North Carolina
- FARMERS INSECTICIDE COMPANY Rose Hill North Carolina
- FEDERAL CHEMICAL COMPANY, INC. 2701 Winthrop Avenue Indianapolis, Indiana
- FLAG SULPHUR & CHEMICAL COMPANY Box 5737 Tampa 5, Florida

FLORIDA AGRICULTURAL SUPPLY COMPANY Box 658 Jacksonville, Florida

FLORIDA CHEMICAL INDUSTRIES, INC. Box 1630 West Palm Beach, Florida

FREEWAX CORPORATION 116 S. Calhoun Street Tallahassee, Florida

GALLOWHUR CHEMICAL CORPORA-TION 801 Second Avenue New York 17, New York

GARDEN HOSE SPRAY COMPANY, INC. 7 Upland Road Cambridge, Massachusetts

GEIGY COMPANY, INC. 89 Barclay Street New York 8, New York

GETEM MANUFACTURING COMPANY, INC. Box 1110, Norfolk 1 Virginia

GIRARD, FELIX COMPANY, INC. 2013 Fourth & South Minneapolis 4, Minnesota

GLAND-O-LAC COMPANY Box 1178 Omaha, Nebraska

GLIDDEN COMPANY, THE 11001 Madison Avenue Cleveland 2, Ohio

GLOBE LABORATORIES, INC. 116 Commerce Street Fort Worth 2, Texas

GLOVER, H. CLAY COMPANY, INC. 101 W. 31st Street New York 1, New York

GOODRICH, B. F. CHEMICAL COMPANY 324 Rose Building Cleveland 15, Ohio

GOWEN, HOWERTON COMPANY Box 247 Roanoke Rapids, North Carolina

GRAHAM CHEMICAL COMPANY 1407 Battleground Avenue Greensboro, North Carolina

GREEVERS, INC. Chilhowie Virginia

GRISSMER, EARL COMPANY Box 5992 Indianapolis, Indiana

GROWERS & PRODUCERS EXCHANGE Box 1162 Roanoke, Virginia

GULF OIL CORPORATION Box 1166 Pittsburgh 30, Pennsylvania

HARMON PRODUCTS COMPANY 616 E. 4th Avenue Gastonia, North Carolina

HARRIS, J. M. COMPANY, INC. Box 411 Roanoke, Virginia

HARRIS, P. F. MANUFACTURING COMPANY 624 E. Washington Avenue North Little Rock, Arkansas

HARRIS PRODUCTS COMPANY Box 4 Miami Beach 39, Florida

HELLER LABORATORIES, INC. Calumet Avenue & 40th Street Chicago 15, Illinois

HESS, DR. & CLARK, INC. 7th and Orange Streets Ashland, Ohio

HILL MANUFACTURING COMPANY 1500 Jonesboro Road, S.E. Atlanta, Georgia

HILO COMPANY, THE Box 346 Norwalk, Connecticut

HOLCOMB, J. I. MANUFACTURING COMPANY 1601 Barth Avenue Indianapolis 7, Indiana

HOPKINS AGRICULTURAL-CHEM-ICALS COMPANY Box 584 Madison, Wisconsin

HOUSE OF HUSTON, INC. 351 San Lorenzo Avenue Coral Gables, Florida

HOUSTON, SAM COMPANY Box 662 Talladega, Alabama

HUNTINGTON LABORATORIES, INC. 900-970 E. Tipton Street Huntington, Indiana

HUTTIG SASH & DOOR COMPANY 1206 S. Vandeventer Avenue St. Louis 10, Missouri

HYDROTEX INDUSTRIES Box 2400 Dallas 1, Texas

INSECT CONTROLS, INC. 20th and Market Streets Philadelphia, Pennsylvania

INSECT CONTROLS SALES & SERVICE Ephrata Pennsylvania

IRWIN-WILLERT COMPANY 4044 Park Avenue St. Louis 10, Missouri

JOHNSON COTTON COMPANY Dunn North Carolina

JOHNSTON, GASTON, CORPORATION 24-64 45th Street Long Island City 3, New York

KENTUCKY COLOR & CHEMICAL COMPANY 600 N. 34th Street Louisville 12, Kentucky

KIRBY CHEMICAL COMPANY, INC. Severn North Carolina

KNAPP-MONARCH COMPANY 3501 Bent Avenue St. Louis 16, Missouri

KOPPERS COMPANY 1201 Koppers Building Pittsburgh 19, Pennsylvania

KOPPERS COMPANY, INC. 350 Fifth Avenue New York 1, New York

KRYLON, INCORPORATED 2601 N. Broad Street Philadelphia, Pennsylvania

LARVACIDE PRODUCTS, INC. 117 Liberty Street New York, New York

Lasalle Chemical Company 3601 S. Racine Avenue Chicago 9, Illinois

LEDERLE LABORATORIES DIVISION (American Cyanamid Company) Pearl River, New York

LEE, GEORGE H. COMPANY 1115 Harney Street Omaha 8, Nebraska

LeGEAR, DR. L. D. MEDICINE COMPANY 4161 Beck Avenue St. Louis 16, Missouri

LENCO PRODUCTS, INC. 690 W. Fairbanks Avenue Winter Park, Florida

LETHELIN PRODUCTS COMPANY, INC. 15 MacQueston Parkway So. Mount Vernon, New York

LINCK, O. E. COMPANY R.F.D. 6 & Valley Road Clifton, New Jersey

LINDAVAP CORPORATION Box 638 Ann Arbor, Michigan

LIQUID VENEER CORPORATION 144 Urban Street Buffalo 11, New York

LOAMIUM COMPANY OF AMERICA 2 Kingsland Avenue Harrison, New Jersey

McCLELLAN, C. U. LABORATORIES CORP. 3001 E. 12th Street Los Angeles 23, California

McCORMICK & COMPANY, INC. McCormick Building Baltimore 2, Maryland

McKESSON & ROBBINS, INC. Box 548 Bridgeport, Connecticut McLAUGHLIN GORMLEY KING COMPANY 1715 S. E. 5th Street Minneapolis 14, Minnesota

MABEX COMPANY, THE Umbria & Lemonte Streets Philadelphia 27, Pennsylvania

MALLINCKRODT CHEMICAL WORKS
72 Gold Street
New York 8, New York

MAESFIELD-LALIN CHEMICAL COMPANY 706 Grand Street Jersey City 4, New Jersey

MASTER LABORATORIES
Box 24
Beaver Falls, Pennsylvania

MATHIESON CHEMICAL CORPORATION
Mathieson Building
Baltimore, Maryland

MAXWELL INSECTICIDE COMPANY Box 5627 Raleigh, North Carolina

MERCK & COMPANY, INC. Rahway New Jersey

MICHIGAN CHEMICAL CORPORA-TION 500 N. Bankson Street St. Louis, Michigan

MIDLAND LABORATORIES 210-220 Jones Street Dubuque, Iowa

MILLER, B. E. & COMPANY Box 127 Hancock, Maryland

MILLER CHEMICAL & FERTILIZER COMPANY 2226 N. Howard Street Baltimore 18, Maryland

MILLER PRODUCTS COMPANY 5111 Southwest Avenue St. Louis, Missouri

MOLONY FERTILIZER COMPANY Box 314 Charleston, South Carolina

MONSANTO CHEMICAL COMPANY 800 N. 12th Boulevard St. Louis 1, Missouri

MOORMAN MANUFACTURING COMPANY Quincy Illinois

MOTOMCO, INC. 10 Murray Street New York 7, New York

NACO FERTILIZER COMPANY Box 180 Wilmington, North Carolina

NATIONAL ALUMINATE CORPORA-TION 6216 W. 66th Place Chicago, Illinois

- NATIONAL PACKAGE DRUGS, INC. 4200 N. Union Boulevard St. Louis, Missouri
- NIAGARA CHEMICAL DIVISION
  (Food Machinery & Chemical Corporation)
  1200 Talleyrand Avenue
  Jacksonville, Florida
- NORWICH PHARMACAL COMPANY 17 Eaton Avenue Norwich, New York
- NOTT MANUFACTURING COMPANY 14 North 2nd Avenue Mount Vernon, New York
- NOWLAND, GEORGE H. COMPANY 2833 Spring Grove Avenue Cincinnati 25, Ohio
- NUODEX PRODUCTS COMPANY, THE 120 W. 42nd Street New York 18, New York
- NYAL COMPANY 7924 Riopelle Street Detroit 11, Michigan
- ONE-SPOT COMPANY Jessup Maryland
- OPITZ, JOHN, INC. 50-14 39th Street Long Island City 4, New York
- PACIFIC COAST BORAX COMPANY 630 Shatto Place Los Angeles 5, California
- PANTHER OIL & GREASE MANU-FACTURING COMPANY 840 N. Main Fort Worth, Texas
- PARADIZE PRODUCTS CORPORATION
  378 Bergen Boulevard
  Fairview, New Jersey
- PARKE, DAVIS & COMPANY Joseph Campau at the River Detroit 32, Michigan
- PARROTT CHEMICAL COMPANY Sunnyside Avenue Stamford, Connecticut
- PAT'S PEST CONTROL 413 N. McDuffie Street Anderson, South Carolina
- PEARSON & COMPANY Box 431 Mobile 3, Alabama
- PEELE, W. R. COMPANY, INC., THE Clayton North Carolina
- PENICK, S. B. & COMPANY 50 Church Street New York 8, New York
- PENNSYLVANIA ENGINEERING COMPANY 1119-21 N. Howard Street Philadelphia 23, Pennsylvania

- PENNSYLVANIA SALT MANU-FACTURING CO. 1000 Widener Building Philadelphia 7, Pennsylvania
- PER-MO PRODUCTS COMPANY 1715 E. 36th Street Kansas City, Missouri
- PFEIFFER, S. MANUFACTURING COMPANY 3965 Laclede Avenue St. Louis 8, Missouri
- PHELPS-DODGE REFINING CORPORATION 40 Wall Street New York 5, New York
- PIATT & SMILLIE CHEMICALS, INC. 2322 Olive Street St. Louis 3, Missouri
- PIONEER MANUFACTURING COMPANY 3053 E. 87th Street Cleveland 4, Ohio
- PITTSBURGH AGRICULTURAL CHEMICAL COMPANY 350 Fifth Avenue New York 1, New York
- PITTSBURGH PLATE GLASS COMPANY 2000 Grant Building Pittsburgh 19, Pennsylvania
- PLANTERS CHEMICAL CORPORA-TION 3111 Broad Creek Road Norfolk, Virginia
- POLK MILLER PRODUCTS CORPORATION 2007 N. Hamilton Street Richmond 21, Virginia
- PRATT, B. G. COMPANY 160 Moore Street Hackensack, New Jersey
- PRATT FOOD COMPANY 130 Walnut Street Philadelphia 6, Pennsylvania
- PRENTISS DRUG & CHEMICAL COMPANY 110 William Street New York, New York
- PRIVATE BRANDS, INC. 300 S. 3rd Street Kansas City 18, Kansas
- PROTECTION PRODUCTS MANU-FACTURING COMPANY Box 747 Kalamazoo, Michigan
- PUREPAC CORPORATION 511 E. 72nd Street New York 21, New York
- PUREX CORPORATION, LTD. 9300 Rayo Avenue South Gate, California
- PURO COMPANY, INC. 2801-05 Locust St. Louis 3, Missouri

QUALITY MANUFACTURING COMPANY, INC. 2601 Selwyn Avenue Charlotte 7, North Carolina

QUINN WHOLESALE COMPANY Warsaw North Carolina

RALSTON PURINA COMPANY 835 S. 8th Street St. Louis, Missouri

RAT BISCUIT COMPANY 19 N. Limestone Street Springfield, Ohio

RAT LUNCHES COMPANY 504 E. 6th Street Carroll, Iowa

RAWLEIGH, W. T. COMPANY S. Liberty Avenue Freeport, Illinois

REARDON, W. G. LABORATORIES
1 Mill Street
Port Chester, New York

REEFER-GALLER, INC. 225 Fifth Avenue New York 10, New York

REID, FRANK COMPANY Box 564 Greenville, North Carolina

REILLY TAR & CHEMICAL CORPORATION 1615 Merchant Bank Building Indianapolis, Indiana

RE-MARK CHEMICAL COMPANY, INC. 98 N.E. 73rd Street Miami, Florida

REX RESEARCH CORPORATION 600 Montrose Avenue Toledo 7, Ohio

REXALL DRUG COMPANY 8480 Beverly Blvd. Los Angeles 48, California

RIGO MANUFACTURING COMPANY 9 Cummins Station Nashville 3, Tennessee

ROCON, INC. 1021 Inca Denver, Colorado

ROHM & HAAS COMPANY 222 W. Washington Square Philadelphia 5, Pennsylvania

ROSE MANUFACTURING COMPANY 6 Main Street Beacon, New York

ROTENONE PRODUCTS COMPANY 110 Eaton Place East Orange, New Jersey

ROYAL PHARMACAL CORPORATION 12-22 N. First Street Duquesne, Pennsylvania

RUBICON, INC. 220 Fifth Avenue New York 1, New York RUST-OLEUM CORPORATION 2425 Oakton Street Evanston, Illinois

SALISBURY'S LABORATORIES 500 Gilbert Street Charles City, Iowa

SAYMAN PRODUCTS COMPANY 2101 Locust Street St. Louis 3, Missouri

SCOTT, O. M., & SONS COMPANY Marysville Ohio

SCOTT'S INDUSTRIES 311 Bellevue Jackson, Tennessee

SEACOAST LABORATORIES 156 Perry Street New York 14, New York

SEARS, ROEBUCK & COMPANY 675 Ponce de Leon Avenue Atlanta, Georgia

SENORET CHEMICAL COMPANY 610 Gratiot Street St. Louis 2, Missouri

SEXTON, JOHN, AND COMPANY 10 Chestnut Street Philadelphia, Pennsylvania

SHELL CHEMICAL CORPORATION 50 West 50th Street New York 20, New York

SHEPARD CHEMICAL WORKS 317 S. 2nd Street Wilmington, North Carolina

SHUPTRINE COMPANY Box 644 Savannah, Georgia

SINCLAIR REFINING COMPANY Box 1710 Atlanta, Georgia

SINGLETARY, F. B., JR. & COMPANY 208 S. Washington Street Rocky Mount, North Carolina

SINTOS COMPANY, INC., THE 220 E. 21st Street New York 10, New York

SMITH SEED & FEED CO., INC. 315 Lynn Street Danville, Va.

SOCONY-VACUUM OIL COMPANY 26 Broadway New York 4, New York

SOLARINE COMPANY 4201 Pulaski Highway Baltimore 24, Maryland

SOUTHERN AGRICULTURAL CHEMICALS, INC. Box 191 Kingstree, South Carolina

SOUTHERN AGRICULTURAL INSECTICIDES Box 1130 Hendersonville, North Carolina

- SOUTHERN CHEMICAL COMPANY Box 249 Hendersonville, North Carolina
- SPANDY, INC. 19 Spring Street West Orange, New Jersey
- SPENCER CHEMICAL COMPANY 610 Dwight Building Kansas City, Missouri
- SPICKELMIER PRODUCTS COMPANY 105 West Adams Street Chicago 3, Illinois
- SPINDLE CITY CHEMICAL COMPANY 408 S. Columbia Street Gastonia, North Carolina
- SPIRITTINE CHEMICAL COMPANY Box 233 Wilmington, North Carolina
- SPRATT'S PATENT (AM) LTD. 18 Congress Street Newark 5, New Jersey
- SPRAY, INCORPORATED 218 North 15th Street East Orange, New Jersey
- STANDARD AGRICULTURAL CHEMICALS 1301 Jefferson Street Hoboken, New Jersey
- STANDARD FERTILIZER COMPANY (Division of Mathieson Chemical Corp.) Williamston, North Carolina
- STANDARD LABORATORIES, INC. 113 West 18th Street New York 11, New York
- STANDARD NAPHTHALENE PRODUCTS 115 Jacobus Avenue South Kearny, New Jersey
- STAUFFER CHEMICAL COMPANY 420 Lexington Avenue New York 17, New York
- STEARNS ELECTRIC PASTE COMPANY 111 W. Washington Street Chicago 2, Illinois
- STEIDL, M. T., INC. 515 First Avenue North Fargo, North Dakota
- STERLING COMPANY, THE 2801 Locust Street St. Louis 3, Missouri
- STERWIN CHEMICALS, INC. 1450 Broadway New York 18, New York
- STEVENS INDUSTRIES, INC. North Main Street Dawson, Georgia
- STEVENSON'S ANT KILLER Central, South Carolina
- STRICKLAND, J., & COMPANY Memphis, Tennessee

- SUN OIL COMPANY 1608 Walnut Street Philadelphia 3, Pennsylvania
- SUWANNEE DRUG COMPANY Newberry, Florida
- SWAN-FINCH OIL CORPORATION 120 W. 42nd Street New York 36, New York
- SWARTZ, WILLIAM P., JR. & CO., INC. 421 Luck Avenue S. W. Roanoke, Virginia
- SWEENEY, W. R., MFGR. Salisbury, Missouri
- SWIFT & COMPANY Box 210 Wilmington, North Carolina
- TAYLOR CHEMICAL COMPANY Aberdeen, North Carolina
- TENNESSEE COPPER COMPANY Copperhill, Tennessee
- TENNESSEE PRODUCTS & CHEMICAL CORP. 500 First American Nat'l Bank Building Nashville, Tennessee
- TENNESSEE SOAP COMPANY 1702 N. Thomas Street Memphis, Tennessee
- TERRELL, RAY R., & COMPANY 2 West Columbia Street Springfield, Ohio
- TESCO CHEMICALS, INC. Box 173—Station C Atlanta 5, Georgia
- TEXIZE CHEMICALS, INC. Box 305 Greenville, South Carolina
- THOMAS PEST CONTROL LABORATORY R.F.D. 2 Chadbourn, North Carolina
- THOMPSON-HAYWARD CHEMICAL COMPANY 2915 Southwest Blvd. Kansas City 8, Missouri
- TIRON CHEMICAL COMPANY Box 1203 Greensboro, North Carolina
- TOXITE LABORATORIES Chestertown, Maryland
- TRIANGLE CHEMICAL COMPANY Foot of Elm Street, Box 529 Macon, Georgia
- UNION CARBIDE & CARBON CORPORATION 30 East 42nd Street New York 17, New York
- U. S. INDUSTRIAL CHEMICALS, INC. 60 East 42nd Street New York 17, New York
- U. S. PACKAGING CORPORATION 1439 Railroad Avenue Bridgeport 5, Connecticut

- U. S. PHOSPHORIC PRODUCTS (Tennessee Corporation) Tampa, Florida
- U. S. RUBBER COMPANY Rockefeller Center New York 20, New York
- UNIVERSAL ELECTRIC PRODUCTS CORPORATION 2203 Regent Street Madison, Wisconsin
- VAN BRODE MILLING COMPANY Cameron Street Clinton, Massachusetts
- VANDERBILT, R. T., COMPANY 230 Park Avenue New York, New York
- VAPORETTE, INC. 1618 Irwin-Keasler Bldg. Dallas, Texas
- VESTAL LABORATORIES, INC. 4963 Manchester St. Louis 10, Missouri
- VIRGINIA-CAROLINA CHEMICAL CORPORATION Black Leaf Division 401 E. Main Street Richmond 5, Virginia
- VIRGINIA SMELTING COMPANY West Norfolk, Virginia
- WALGREEN COMPANY 4300 Peterson Avenue Chicago 30, Illinois
- WALKER REMEDY COMPANY 224 Commercial Waterloo, Iowa
- WALLACE HARDWARE COMPANY, INC. 9-13 N. Cumberland Street Morristown, Tennessee
- WATKINS, J. R., COMPANY 150 Liberty Street Winona, Minnesota
- WEEVIL-CIDE COMPANY, THE 1323 Union Avenue Kansas City 7, Missouri

- WESTCHESTER VETERINARY PRODUCTS DIVISION OF EAST CO., INC. 110 Mamaroneck Avenue White Plains, New York
- WEST DISINFECTING COMPANY 42-16 West Street Long Island City 1, New York
- WESTVACO CHEMICAL DIVISION (Food Machinery & Chemical Corp.) 161 East 42nd Street New York 17, New York
- WHITMIRE RESEARCH LABORA-TORIES, INC. 339 S. Vandeventer St. Louis 10, Missouri
- WHITMOYER LABORATORIES
  19 N. Railroad Street
  Myerstown, Pennsylvania
- WILLIAMS, J. B., COMPANY 222 Williams Street Glastonbury, Connecticut
- WILSON, ANDREW, INC. Baltuarol Way Springfield, New Jersey
- WOODLETS, INC. Hester Street Portland, Pennsylvania
- WOOLFOLK CHEMICAL WORKS E. Main Street Fort Valley, Georgia
- WORRELL MANUFACTURING COMPANY St. Louis 10, Missouri
- WYATT, JOB P., & SONS COMPANY Raleigh, North Carolina
- WYETH, INC. 1600 Arch Street Philadelphia 3, Pennsylvania
- X-ALL CHEMICAL CORPORATION 459 South Driver Avenue Durham, North Carolina
- YERKES CHEMICAL COMPANY, INC. 108 S. Patterson Avenue Box 745 Winston-Salem, North Carolina
- ZONITE PRODUCTS CORPORATION 100 Park Avenue New York 17, New York

# N. C. Aerial Crop-Dusting Law and Regulations

The North Carolina General Assembly, Session of 1953, enacted the Aerial Crop Dusting Law, effective July 1, 1953. This legislation was sponsored by the North Carolina Aerial Applicators Association. Its purposes are to protect public health and welfare, bring improved order in the aerial dusting industry and eliminate practices which were not to the best interests of the industry or those whom it served.

In summary, the law and the regulations promulgated thereunder require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualification for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licensees are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in full detail in the following sections.

# N. C. AERIAL CROP-DUSTING LAW CHAPTER 106, N. C. GENERAL STATUTES.

#### Article 4B, Aircraft Application Of Pesticides

- § 106-65.13. Definitions. For the purposes of this Article:
- a. The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the Commissioner shall declare to be a pest.
- b. The term "insecticide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

- c. The term "fungicide" mean any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.
- d. The term "herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any weed.
- e. The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.
- f. The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts) as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.
- g. The term "weed" means any plant or plant part which grows where not wanted.
- h. The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other similar representative thereof.
  - i. The term "Commissioner" means the Commissioner of Agriculture.
- j. The term "Board of Agriculture" means the North Carolina Board of Agriculture.
- k. The term "custom application of pesticides" means any application of pesticides by aircraft.
- 1. The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of, or flight in, the air.

#### § 106-65.14. Licenses.

- a. It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.
- b. The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or technician of the organization to take the examination, such designee to be

subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member, or technician to take the examination.

- c. If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this Article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.
- d. The Commissioner may suspend, pending inquiry, for not longer than ten days, and, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this Act or regulations made thereunder.
- e. The Commissioner may require, under such rules and regulations as may be promulgated under this Act, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.
- f. Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm, set aside or modify the action of the Board of Agriculture, provided, that the findings of fact as made by said Board, if supported by evidence shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with oruntil the decision or action of said Commissioner or Board has been set aside by court action.

- §106-65.15. Regulations, Materials and Methods of Application. The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this Article. Provided, however, such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult that official with reference thereto.
- § 106-65.16. Reports.—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.
- § 106-65.17. Information.—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.
- § 106-65.18. Penalties.—Any person violating the provisions of this Act or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.
- § 106-65.19. Enforcement.—For the purpose of carrying out the provisions of this Act the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this Act.
- § 106-65.20. Delegation of Duties.—The functions vested in the Commissioner by this Act may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.
- § 106-65.21. Cooperation.—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this Act and of securing uniformity of regulations.
- § 106-65.22. Separability.—If any provision of this Act is declared unconstitutional, or the applicability thereof to any person or circumstance is held invalid, by a court of competent jurisdiction, the constitutionality of the remainder of the Act and the applicability thereof to other persons and circumstances shall not be affected thereby.

#### RULES, REGULATIONS, DEFINITIONS AND STANDARDS

#### CHAPTER XII

#### Application of Pesticides By Aircraft

#### ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT

- § 12-1. Application for License.—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.
- § 12-2. Classes of Licenses.—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:
  - (a) Contractor's License. A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.
  - (b) Airplane Applicator's License. An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.
- § 12-3. Examination for License.—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.
- § 12-4. Modification, Revocation or Suspension of License.—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G. S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.
- § 12-5. Display of License.—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.
- \$ 12-6. Liability Bond.—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident; and shall be required to be in force for the duration of the applicant's license: Provided, however, it is not the

intent of this regulation for any liability insurance policy to cover damages resulting from the application of pesticides, but only for damages caused by aircraft.

- § 12-7. Report and Records.—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.
- § 12-8. Responsibility of Contractors and Applicators.—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license-suspended or revoked according to the provisions of G. S. 106-65.14.

(Adopted: June 22, 1953) (Authority: G. S. 106-65.15)

### Licensees Under N. C. Aerial Crop-Dusting Law for 1953

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1953. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expired December 31, 1953 or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1954.

#### LOUIS G. ANDERSON

LELAND S. McMAHON
209 Park Street
Clinton, North Carolina
Box 183, Cabool, Missouri
Applicator and Contractor

WILLIAM HOWARD BAGGETT c/o Mrs. A. H. Tilley Fuquay Springs, North Carolina Applicator and Contractor

JOSEPH N. BAGWELL Fletcher, North Carolina Applicator

C. W. BARCLAY
Scotland Neck, North Carolina
Eastville, Virginia
Applicator

DONALD F. BENTLEY Belle Glade, Florida Applicator

JOHN H. BISSETTE P. O. Box 386 Wilson, North Carolina Bailey, North Carolina Applicator

AMY R. BLAND, JR.
Box 100
Kenansville, North Carolina
Applicator and Contractor

TOM W. BOWLING
P. O. Box 386
Wilson, North Carolina
Applicator

BRADLEY MILLING COMPANY Hobgood, North Carolina Contractor

ELMER B. BRYON, JR. Candor, North Carolina Applicator HALBERT E. CAMPBELL Route 1, Box 315 Clinton, North Carolina Applicator

M. E. CANADY
P. O. Box 524
Greenville, North Carolina
Springfield, Missouri
Applicator

GEORGE W. CARR
Carr Flying and Dusting Service
Box 31
Lumberton, North Carolina
Applicator and Contractor

OSCAR B. CASE
Carolina Dusting Company
55 Flat Rock Avenue
Hendersonville, North Carolina
Applicator and Contractor

LESTER R. CASHION, JR. c/o Little Hotel Henderson, North Carolina Troutman, North Carolina Applicator

McKINLEY CHESHIRE, JR. Candor, North Carolina Applicator

THOMAS W. COBB Hookerton, North Carolina Applicator

ODBERT H. CORNWELL Moatsville, West Virginia Applicator

JOE E. COUCH
Box 524
Greenville, North Carolina
Alluwe, Oklahoma
Applicator

CALVIN LEE CRUSE Henderson, North Carolina Davidson, North Carolina Applicator MAURICE R. CULVERWELL c/o A. M. Jones Benson, North Carolina Burt, New York Applicator

H. F. CUMMINGS
P. O. Box 524
Greenville, North Carolina
Tulsa, Oklahoma
Applicator

JAMES L. DeHAVEN Garrett Hotel Ahoskie, North Carolina 505 East 8th Street Coffeyville, Kansas Applicator

FRANK C. DENTON
209 Wells Drive
Hendersonville, North Carolina
(Meyer Airport)
Applicator and Contractor

MITCHELL DUKE Route 3 Zebulen, North Carolina Contractor

M. L. DUKE Route 4 Zebulon, North Carolina Applicator and Contractor

FARM SPRAYERS, INC. P. O. Box 231 Washington, North Carolina (Warren Airport) Contractor

FARMERS SUPPLY HOUSE 504-506 S. Front Street New Bern, North Carolina Contractor

EDWARD C. FAULKE P. O. Box 386 Wilson, North Carolina Applicator

G. H. FERGUSON
P. O. Box 524
Greenville, North Carolina
Springfield, Missouri
Applicator

W. A. FORBES P. O. Box 94 Winterville, North Carolina Contractor

GREENVILLE AVIATION, INC. P. O. Box 524 Greenville. North Carolina Contractor JOSEPH HENRY HAGER, JR. Robersonville, North Carolina St. Louis, Missouri Applicator

EUGENE C. HATCHELL Route 2 Angier, North Carolina Chester, South Carolina Applicator

WILLIAM M. HAYS
Whiteville, North Carolina
Applicator

WALTER R. HELLIER Box 207 Candor, North Carolina Screven, Georgia Applicator

D. E. HENDERSON Scotland Neck, North Carolina Contractor

GENE L. HICKMAN

Hickman Flying and Dusting Service
Route 1

Bladenboro, North Carolina

Applicator and Contractor

RAY S. HOOD 1206 Charles Street Greenville, North Carolina Applicator

EDWARD HORTON Candor, North Carolina Applicator

EARL EDGAR JACKSON P. O. Box 386 Wilson, North Carolina Applicator

L. S. JERNIGAN AND SON 128-130 Rhue Street Ahoskie, North Carolina Contractor

PERRY WALTER JONES
32 Spring Street
Hendersonville, North Carolina
Applicator

LEO LEUENBERGER
P. O. Box 524
Greenville, North Carolina
Poplar Bluff, Missouri
Applicator

JACK LOWERS
418 Johnson Street
Clinton, North Carolina
Applicator and Contractor

S. G. LYSNE
Indian River Flying Service, Inc.
General Delivery
Kinston, North Carolina
Box 222, Vero Beach, Florida
Applicator and Contractor

"BILL" McRAE Wilrick Hotel Sanford, North Carolina Candor, North Carolina Contractor

EDWARD A. MAY
Box 386
Wilson, North Carolina
Applicator

S. S. MILLER' Reidsville, North Carolina Applicator

L. G. MIMS
Route 1
Silver Springs, North Carolina
Applicator

C. T. MODLIN
Lumberton, North Carolina
Applicator

RICHARD P. MORGAN Hendersonville, North Carolina Applicator

MAXWELL HOMER MULLIS
Max Mullis Spraying and Dusting Co.
York, South Carolina
Applicator and Contractor

JOHN W. NEWMAN
P. O. Box 806
Elkin, North Carolina
Applicator and Contractor

W. J. O'CONNELL, JR. Box 524 Greenville, North Carolina Richmond, Virginia Applicator

NEIL F. OLESON Greenville, North Carolina Applicator

R. A. PARKS
P. O. Box 524
Greenville, North Carolina
Tulsa, Oklahoma
Applicator

PAUL F. POTTER
Wilson Airport
Wilson, North Carolina
Applicator

FREDERICK M. POWELL Belle Glade, Florida Applicator

HUGH E. REYNOLDS
Hugh Reynolds Airplane Dusting
and Spraying
P. O. Box 119
Candor, North Carolina
Applicator and Contractor

L. F. JACK REYNOLDS
Jack Reynolds Dusting and Spraying
Box 207
Candor, North Carolina
Applicator and Contractor

J. H. ROBERTSON Box 291 Robersonville, North Carolina Contractor

THEODORE E. ROMAN
319 North East 1st Street
Belle Glade, Florida
Route 1, Benson, North Carolina
Applicator and Contractor

N. M. SIMPSON Route 1, Box 370 Brown Summit, North Carolina Applicator and Contractor

RICHARD D. SMITH Rolla, Missouri Applicator

J. F. SNODGRAS P. O. Box 524 Greenville, North Carolina Coffeyville, Kansas Applicator

SKYLINE SPRAYERS, INC. 808 Devers Avenue New Bern, North Carolina P. O. Box 207, Rockledge, Florida Contractor

DOCK B. STARNES
Route 1
Lowrys, South Carolina
Whiteville, North Carolina
Applicator

J. M. STEPHENSON Varina, North Carolina Contractor

TIMOTHY STEVENS Alliance, North Carolina Applicator RHONDA L. STORY
Pamlico Flying Service
Bayboro, North Carolina
Applicator and Contractor

EDWARD L. TREAT
Treats Dusting Service
305 Spring Avenue
Fuquay Springs, North Carolina
Applicator and Contractor

HENRY C. WARF
Route 2
Reidsville, North Carolina
Applicator and Contractor

ROBERT D. WHITFIELD
Whitfield's Crop Spraying Service
Hurdle Mills, North Carolina
Contractor

CORNELIUS WILDHABER 309 College Street Clinton, North Carolina St. Louis, Missouri Applicator

WALTER WILLFORD P. O. Box 524 Greenville, North Carolina Pocatello, Idaho Applicator

WILSON AIR SERVICE AND SALES, INC. P. O. Box 386 Wilson, North Carolina Contractor

C. W. WITTE
Witte Air Service
Robersonville, North Carolina
Kewanee, Illinois
Applicator and Contractor

Official Analyses

of

Economic Poisons

1953

Types

## Summary of Economic Poisons Examined — 1953

Number

Samples De-

Samples MisSamples Not

13905	Samples	ficient	branded	Registered
Arsenicals				
Arsenic Trioxide	5	5	_	_
Arsenic Trioxide Calcium Arsenate-Metaldehyde	5 2 16	-	_	
Lead Arsenate Lead Arsenate with other materials	4	3 1		=
Paris Green	4 5 1	_	-	-
Sodium ArseniteTricalcium Arsenate	14	=	=	_
Organic Chlorine Compounds				
Aldrin Aldrin with DDT-Sulfur	50	5		1
Benzene Hexachloride (Gamma) BHC-DDT-Sulfur Mixtures BHC with other materials	50 29 223	5 3 38 4	=	1 1
BHC-DDT-Sulfur Mixtures	223	38	-	_
('hlordane preparations	63	14	= = -	3
2,4-D. DDD (TDE)	2	_	1 1 7	-
DDT (TDE)	248 119	4 6 5	1	1
DDT with other materials	2.3	5	1	_
Ethylene Dichloride-Carbon Tetrachloride	7		7	_
Heptachlor-DDT Methoxychlor preparations Toxaphene-Toxaphene with Sulfur	14	1	_	_
Toxaphene-Toxaphene with Sulfur	198	12	-	1
Metallic Compounds				
Copper-Copper with other materials  Mercury Compounds  Metallic Dithiocarbamates	44	5	-	4
Metallic Dithiocarbamates	3 95	1 9	_	=
Parathion-Parathion with DDD- DDT-Sulfur	10	(		
Phosphorus	46	17	_	. =
Botanicals				
Nicotine ————————————————————————————————————	3 17	1		=
Rotenone preparations	208	62	1 1	5
Sabadilla Strychnine	19	_	1	-
Miscellaneous				
Aramite		=	_	1 1
Boric Acid	1		=	-
Boric AcidCalcium Cyanide	$\frac{1}{2}$	1	-	_
Captan Fluorine Compounds Lime Sulfur Malathon	12	_	=	
Lime Sulfur	1	-	-	-
Malathon	1 3	-	_	15
Naphthalene Organic Thiocyanates	1	_	=	_
Paradichlorobenzene	1	( -	( -	-
Pentachlorophenol	1 1	=	=	
Phenols-BHC-DDT	16	15	_	_
Naphthalene Organic Thiocyanates Paradichlorobenzene Pentachlorophenol Petroleum Öils Phenols-BHC-DDT Pine Oil Potassium Cvanate	$\begin{bmatrix} 1\\3\\2 \end{bmatrix}$	15 1 1	-	-
Sulfur	2	1	=	_
Thallium Sulfate	1	_	_	-
Warfarin	3			
TOTALS	1523	214	11	19
	(4-4-1)			0.40
Number manufacturers registered				
Number manufacturers registered fr				
Number items registered				2,379
				100

Number stop sale orders issued.....

## Decisions

The results of analyses on economic poisons for the year 1953 are tabulated in the following pages. As is the case at any time, these analyses may run higher, lower, or approximately equivalent to guarantees. Small deviations are normal. However, excesses, in some instances, or extreme deficiencies are detrimental and unsatisfactory. For the reader's ready interpretation of the analyses, the terms "Passed", "Deficient", "Misbranded" and "Not Registered" are given adjoining the respective analyses. Their meanings are as follows:

"Passed" signifies that composition of the product as analyzed measured up to guarantee satisfactorily and that its labeling conformed to the requirements of the law.

"Deficient" usually signifies the analysis to have shown that the quantity of one or more ingredients fell significantly below that guaranteed. It also may indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Products which fall in this classification, in most instances, qualify as being unsatisfactory for use and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling. In a few borderline cases where exact values are indeterminate, the product is qualified as "Deficient", but the manufacturer cautioned. In some instances where such goods had been used before analysis could be completed, the manufacturer made settlement satisfactory to the user.

"Misbranded" signifies that the labeling failed to conform to the requirements of the law. Omission of some item or statement is a more common flaw. Among these may be omission of: Proper ingredient listing; skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as sabadilla seed.

In a number of instances of misbranding the defect appeared to be inadvertent or of a minor nature and it appeared permissible and fair to allow the manufacturer time for correction. Few instances occurred in which removal from sale was necessary to effect correction of gross mislabeling or tardiness in making corrections.

"Not Registered" signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations "Official Analyses of Economic Poisons" which appear in the following section. This should not be taken to indicate that manufacturers did not include them on labels. The procedure has been followed since this application of available work enables a broader coverage of all products offered for sale.

## Official Analyses of Economic Poisons, 1953

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ALDRIN			
Acme Fertilizer Company			
2 Lbs. Aldrin Equivalent Emulsion			
Hexachloro Hexahydro Dimethano Naphthalene	22.80	22.29	Passed
Related compounds	17.20	16.81	
Hexachloro Hexahydro Dimethano Naphthalene	22.80	23.18	Passed
Related compounds	17.20	17.49	
Atlas Chemical Company			
Aldricide 21/2% Dust			
Hexachloro Hexahydro Dimethano Naphthalene	2.375	3.69	Not registered
Related compounds	1.791	2.78	THE REAL PROPERTY.
Cape Fear Chemical Company			
2½% Aldrin Equivalent Dust			
Hexachloro Hexahydro Dimethano Naphthalene	2.375	2.23	Deficient
Related compounds	1.791	1.68	
Carolina Chemicals, Inc.			
Flight Brand 2.5% Aldrin Dust			
Hexachloro Hexahydro Dimethano Naphthalene	2.375		Passed
Related compounds	1.791		
Theoretical chlorine	1.970	2.66	
23% Aldrin Equivalent Emulsifiable Concentrate	•		NAME AND POST OF
Hexachloro Hexahydro Dimethano Naphthalene	21.85	22.60	Passed
Related compounds	16.48	17.05	
Taylor Chemical Company			
Superkill 20% Aldrin Emulsifiable Concentrate			
Hexachloro Hexahydro Dimethano Naphthalene	22.20	31.57	Passed
Related compounds	1.20	1.66	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Superkill 20% Aldrin Emulsifiable Concentrate	e (Continued)		
Hexachloro Hexahydro Dimethano			Same Printer
Naphthalene		31.55	Passed
Related compounds	1.20	1.66	
Hexachloro Hexahydro Dimethano Naphthalene	22.20	33.67	Passed
Related compounds		1.77	1 83364
Kelaled Compounds	1.20	1.77	
Hexachloro Hexahydro Dimethano	22.20	33.07	Passed
Naphthalene			Passed
Related compounds	1.20	1.74	
ALDRIN - DDT			
cme Fertilizer Company			
1/2% Aldrin Equivalent Dust with 5% DDT			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.55	
Aldrin	<b>2.5</b> 0		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.96	
Atlas Chemical Corp.			
ragon Brand Aldricide Dust 21/2-5-0			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.43	
alifornia Spray-Chemical Corp.			
Ortho AE-DDT 2.5-5 Dust			
Aldrin	2.50		Passed
DDT			7 7 7 14
Theoretical chlorine		4.49	
arolina Chemicals, Inc.			
		of the same	
light Brand 2½-5-0 Dust			
Aldrin			Deficient
DDT			
Theoretical chlorine	4.47	4.20	

Aldrin	Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT	Flight Brand 2½-5-0 Dust (Continued)			
DDT	Alder	0.50		Daniel
Theoretical chlorine				Passed
Dee Aitch 2.5% Aldrin (Equivalent) 5% DDT			4.44	
Aldrin	Daly-Herring Company		ALPE DES	
DDT	Dee Aitch 2.5% Aldrin (Equivalent) 5% DDT			
DDT	Aldrin	2.50		Passed
Theoretical chlorine       4.47       4.48         Geigy Company, Inc.       Geigy 2½% Aldrin Equivalent 5% DDT Dust         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.62         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.60         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       5.00       Passed         DDT       5.00       Passed         DDT       5.00       Passed         <				and and experience
Geigy 2½% Aldrin Equivalent 5% DDT Dust         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.62         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.60         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00			4.48	
Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.62         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.60         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	Geigy Company, Inc.			
DDT         5.00           Theoretical chlorine         4.64         4.62           Aldrin         2.50         Passed           DDT         5.00         Theoretical chlorine         4.64         4.60           Aldrin         2.50         Passed         DT         5.00         Theoretical chlorine         4.64         4.43           Aldrin         2.50         Passed         Passed         DT         5.00         Theoretical chlorine         4.64         4.47           Aldrin         2.50         Passed         Passed         DT         5.00         Theoretical chlorine         4.64         4.77         Aldrin         2.50         Passed         Passed           DDT         5.00         Theoretical chlorine         4.64         4.47         Aldrin         2.50         Passed         Passed           DDT         5.00         Theoretical chlorine         4.64         4.47         Aldrin         2.50         Passed         Passed           DDT         5.00         Theoretical chlorine         4.64         4.64         4.47         Aldrin         2.50         Passed	Geigy 21/2% Aldrin Equivalent 5% DDT Dust			
Theoretical chlorine       4.64       4.62         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.60         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       5.00       Passed	Aldrin	2.50		Passed
Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.60         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00       Passed	DDT	5.00		
DDT         5.00           Theoretical chlorine         4.64         4.60           Aldrin         2.50         Passed           DDT         5.00         Passed           Theoretical chlorine         4.64         4.43           Aldrin         2.50         Passed           DDT         5.00         Passed           DDT         4.64         4.47           Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin         2.50         Passed           DDT         10.00         Passed         Passed	Theoretical chlorine	4.64	4.62	
Theoretical chlorine       4.64       4.60         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	Aldrin	2.50		Passed
Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	DDT	5.00		
DDT       5.00         Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	Theoretical chlorine	4.64	4.60	
Theoretical chlorine       4.64       4.43         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	Aldrin	2.50		Passed
Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	DDT	5.00		
DDT       5.00         Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	Theoretical chlorine	4.64	4.43	
Theoretical chlorine       4.64       4.47         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	Aldrin	2.50		Passed
Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	DDT	5.00		
DDT       5.00         Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	Theoretical chlorine	4.64	4.47	
Theoretical chlorine       4.64       4.77         Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	Aldrin	2.50		Passed
Aldrin       2.50       Passed         DDT       5.00         Theoretical chlorine       4.64       4.47         Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	DDT	5.00		
DDT	Theoretical chlorine	4.64	4.77	
Theoretical chlorine	Aldrin	2.50		Passed
Geigy 2½% Aldrin Equivalent 10% DDT Dust         Aldrin       2.50       Passed         DDT       10.00	DDT	5.00		
Aldrin	Theoretical chlorine	4.64	4.47	
DDT 10.00	Geigy 21/2% Aldrin Equivalent 10% DDT Dust			
	Aldrin	2.50		Passed
Theoretical chlorine	DDT	10.00		
	Theoretical chlorine	6.97	7.00	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Johnson Cotton Company			
21/2% Aldrin 5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.35	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.43	
Mathieson Agricultural Chemicals Co.			
Mathieson 2.5-5-0 Cotton Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.96	
Aldrin			Passed
DDT	5.00		
Theoretical chlorine	4.47	4.75	
Mathieson 2.5-10-0 Cotton Dust			
Aldrin	2.50		Passed
DDT	10.00		
Theoretical chlorine	6.97	7.39	
Naco Fertilizer Company			
Aldrin 118 Cotton Dust 2.5-5-0			
Aldrin	2.50		Passed
DDT			
Theoretical chlorine	4.47	4.42	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.53	
Aldrin	2.50		Deficient
DDT	5.00		
Theoretical chlorine	4.47	4.15	
W. R. Peele Company, Inc.			
21/2% Aldrin 5% DDT Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.43	

Manufacturers and Brands	Os nymnon	Guaranteed Per Cent	Found Per Cent	Decisions
ni ch i . i . c				
Planters Chemical Corp.				
Planters Aldrin Equivalent DDT Dust		0.50		
Aldrin				Passed
DDT				
Theoretical chlorine		4.47	4.80	
Aldrin		2.50		Passed
DDT	0.3	5.00		
Theoretical chlorine		4.47	4.27	
		0.50		
Aldrin				Passed
DDT			414	
Theoretical chlorine		. 4.47	4.31	
Aldrin		2.50		Passed
DDT		5.00		
Theoretical chlorine		4.47	4.45	
				100
Aldrin				Passed
DDT				
Theoretical chlorine		. 4.47	4.40	
Standard Fertilizer Company				
Standard 2.5-5-0 Cotton Dust				
Aldrin		2.50		Passed
DDT		5.00		
Theoretical chlorine		4.47	4.38	
Aldrin		0.50		Part of the latest
				Passed
DDT			4.40	
Theoretical chlorine		. 4.47	4.49	
Stauffer Chemical Company				
Stauffer Cotton Dust #721				
Aldrin		2.50		Passed
DDT		. 5.00		, , , ,
Theoretical chlorine		4.47	4.62	
Aldrin		2.50		Passed
DDT				AND DESCRIPTION OF THE PARTY OF
Theoretical chlorine			4.73	
				D1
Aldrin				Passed
DDT				
Theoretical chlorine		4.47	4.79	

Nanufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
tevens Industries, Inc.			
Naster Cotton Dust-2½% Aldrin Equivale	nt 5% DDT		
Aldrin	2.50		Deficient
DDT	5.00		
Theoretical chlorine	4.47	3.90	
obacco By-Products & Chemicals Corp.			
ack Leaf 21/2-5-0 Dust			
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	5.12	
Aldrin	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.47	4.43	
Aldrin	2.50		Deficient
DDT	5.00		
ALDRIN - DDT - SULFUR			
Nathieson Agricultural Chemicals Co.			
ro-More 2.5-5-40 Cotton Dust			
Aldrin	2.50		Passed
DDT	5.00		
Sulphur	40.00	40.32	
Theoretical chlorine	4.47	4.62	
bbacco By-Products & Chemical Corp.			
ack Leaf 21/2-5-40 Dust			
Aldrin	2.50		Passed
DDT	5.00		
Sulfur	40.00	41.44	
Theoretical chlorine	4.47	5.23	
Aldrin	2.50		Passed
DDT	5.00		
501			
Sulfur Theoretical chlorine	40.00	42.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ANTU			
Dr. Hess and Clark, Inc.			
Dr. Hess Anturat			
Alpha naphthyl thiourea	20.00	19.46	Passed
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's 3-way Rat Killer			
Alpha naphthyl thiourea	18.40	19.28	Passed
Nott Manufacturing Company			
Rat Not Paste			
Alpha naphthyl thiourea	5.00	5.69	Not registered
ARSENICALS			
ARSENIC TRIOXIDE			
F. B. Singletary, Jr. Company			
Singletary's Rat & Mouse Exterminator			
Arsenic trioxide	3.00	1.36	Deficient
Arsenic as metallic		1.03	
Arsenic trioxide	3.00	2.16	Deficient
Arsenic as metallic		1.64	Dentelem
Arsenic trioxide	3.00	1.71	Deficient
Arsenic as metallic		1.30	Delicieni
Alselic as metalic	2.2/	1.50	
Southern Chemical Company			
Nok-Out-Bam			
Arsenic trioxide		2.52	Deficient
Arsenic as metallic	2.25	1.91	
Arsenic trioxide	4.00	1.95	Deficient
Arsenic as metallic	3.00	1.48	
CALCIUM ARSENATE			
METALDEHYDE			
California Spray-Chemical Corp.			
Ortho Bug-Geta Pellets			
Calcium arsenate	5.00		Passed
Arsenic as metallic	1.88	3.38	
Arsenic—water soluble (not more than)	1.88	1.14	
Metaldehyde	2.00	2.70	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Tobacco By-Products & Chemical Corp.			
Black Leaf Slug & Snail Pellets			
Calcium arsenate	5.00		Passed
Arsenic as metallic	1.88	1.97	
Arsenic-water soluble (maximum)	1.88	1.92	
Metaldehyde	2.00	2.57	
LEAD ARSENATE		Marie Corp.	
Acme White Lead & Color Works			
Acme Arsenate of Lead			
Lead arsenate	98.00		Deficient
Arsenic as metallic	20.00	21.58	
Arsenic-water soluble (not more than)	0.50	1.17	
Lead as metallic	58.00	59.21	
American Agricultural Chemical Company			
Bowker's Arsenate of Lead			
Lead arsenate	98.00		Passed
Arsenic as metallic	19.50	22.40	
Arsenic-water soluble (not more than)	0.50	0.27	
Lead as metallic	58.00	58.21	
Lead arsenate	98.00		Passed
Arsenic as metallic	19.50	22.33	
Arsenic-water soluble (not more than)	0.50	0.34	
Lead as metallic	58.00	59.67	
Central Chemical Company			
Farmrite Arsenate of Lead			
Lead arsenate	96.00		Passed
Arsenic as metallic	19.60	21.16	
Arsenic-water soluble (not more than)	0.50	0.51	
Lead as metallic	58.00	59.58	
Chipman Chemical Company			
Chipman Hi-Test Lead Arsenate			
Lead arsenate	98.00		Passed
Arsenic as metallic	21.00	21.55	
Arsenic—water soluble (not more than)	0.35	0.33	
Lead as metallic	58.00	58.98	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
E. I. du Pont de Nemours & Company			
Nu Rexform Standard Lead Arsenate			
Lead arsenate	96.00		Passed
Arsenic as metallic	19.56	20.92	
Arsenic-water soluble (not more than)		0.34	
Lead as metallic	58.00	59.07	
General Chemical Division Allied Chemical & Dye Corp.			
Orchard Brand Lead Arsenate			
Lead arsenate	97.00		Passed
Arsenic as metallic	19.56	21.55	
Arsenic-water soluble (not more than)	0.25	0.06	
Lead as metallic	58.00	59.56	
Niagara Chemical Division			
Niagara Lead Arsenate			
Lead arsenate	96.00		Passed
Arsenic as metallic	19.56	20.36	
Arsenic-water soluble (not more than)	0.50	0.61	
Lead as metallic	58.00	59.46	
Lead arsenate	96.00		Passed
Arsenic as metallic	19.56	20.01	
Arsenic-water soluble (not more than)	0.50	0.38	
Lead as metallic	58.00	60.07	
Sherwin-Williams Company			
Arsenate of Lead			- Commence
Lead arsenate			Passed
Arsenic as metallic		21.76	
Arsenic-water soluble (not more than)		0.31	
Lead as metallic	58.00	59.31	
Lead arsenate	98.00		Passed
Arsenic as metallic	20.00	21.52	
Arsenic-water soluble (not more than)	0.50	0.75	
Lead as metallic	58.00	58.57	
Lead arsenate	98.00		Deficient
Arsenic as metallic	20.00	21.75	
Arsenic-water soluble (not more than)	0.50	1.23	
Lead as metallic	58.00	58.62	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Tobacco By-Products & Chemical Corp.			
Black Leaf Arsenate of Lead			
Lead arsenate	96.00		Deficient
Arsenic as metallic	19.56	20.36	
Arsenic-water soluble (not more than)	0.50	1.36	
Lead as metallic	58.00	59.40	
Lead arsenate	96.00		Passed
Arsenic as metallic		20.31	Passed
Arsenic as merallic		0.12	
Lead as metallic		58.46	
	30.00	30.40	
Woolfolk Chemical Works			
Security Brand Lead Arsenate			
Lead arsenate	98.00		Passed
Arsenic as metallic	19.56	22.80	
Arsenic-water soluble (not more than)	0.33	0.21	
Lead as metallic	58.00	60.16	
Lead arsenate	98.00		Passed
Arsenic as metallic	19.56	20.69	
Arsenic-water soluble (not more than)		0.16	
Lead as metallic	58.00	60.04	
LEAD ARSENATE — SULFUR — DDT			
Niagara Chemical Division			
Colo Fruit Tree Dust or Spray			
Lead arsenate (basic)	15.00		Passed
Arsenic as metallic	2.10	2.55	
Arsenic—water soluble (not more than)	0.50	0.09	
Lead as metallic	10.20	11.74	
Sulfur	52.00	54.08	
DDT	7.50	7.82	
LEAD ARSENATE — SULFUR — ZINC			
Woolfolk Chemical Works			
Pan Peach Spray			
Lead arsenate	11.50	12.74	Passed
Sulfur	34.00	36.24	
Zinc as metallic		10.12	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pan Peach Spray (Continued)			
Lead arsenate	11.50	13.67	Passed
Sulfur	34.00	34.32	
Zinc as metallic	9.60	10.28	
LEAD ARSENATE — PARIS GREEN			
Standard Fertilizer Company			
Lead Arsenate Paris Green Tobacco Dust			
Lead arsenate	24.50	23.64	Deficient
Paris green		4.55	
Arsenic—water soluble (as metallic)		0.32	
SODIUM ARSENITE			
D. C. Stevenson			
Stevenson's Ant Killer			
Sodium arsenite	1.73	1.75	Passed
Arsenic—water soluble (as metallic)	1.00	0.90	
TRI-CALCIUM ARSENATE			
Woolfolk Chemical Works			
Mop-N-Mix (For Cotton Mopping)			
Tri-calcium arsenate	34.60		Passed
Arsenic as metallic	13.00	12.66	
Arsenic-water soluble (not more than)	0.49	0.42	
Tri-calcium arsenate	34.60	37.13	Passed
Arsenic as metallic	13.00	13.95	
Arsenic-water soluble (not more than)	0.49	0.52	
Security Brand Calcium Arsenate			
Tri-calcium arsenate	70.00	73.97	Passed
Arsenic as metallic	26.39	27.84	
Arsenic-water soluble (not more than)	0.49	0.15	
TRI-CALCIUM ARSENATE — ZINC			
Woolfolk Chemical Works			
Security Poison			
Tri-calcium arsenate	56.00		Passed
Arsenic as metallic	21.50	23.10	
Arsenic-water soluble (not more than)	0.20	0.01	
Zinc (basic sulfate)	4.00	6.02	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
BENZENE HEXACHLORIDE			
Ban-A-Bug Co.			
Ban-A-Bug			
Gamma isomer of BHC	100.00	99.35	Passed
William Cooper and Nephews, Inc.			
Pulvex Flea Powder for Dogs			
Gamma isomer of BHC	0.50	0.49	Passed
do	0.50	0.52	Passed
California Spray-Chemical Corp.			
Ortho Louse and Tick Powder			
Gamma isomer of BHC	1.00	1.07	Passed
do	1.00	1.09	Passed
do	1.00	0.92	Deficient
Gamtox Dust #30			
Gamma isomer of BHC	3.00	2.85	Passed
do	3.00	3.42	Passed
Isotox Transplanter Solution			
Gamma isomer of BHC	5.00	5.09	Passed
do	5.00	9.20	Passed
do	5.00	8.74	Passed
Isotox Garden Spray			
Gamma isomer of BHC	5.00	7.86	Passed
Isotox 25 Seed Treater (Insecticide)			
Gamma isomer of BHC	25.00	24.00	Passed
do		24.88	Passed
do	25.00	22.78	Deficient
Farmers Cooperative Exchange, Inc.			
F.C.X. 11/2% Lindane Dust			
Gamma isomer of BHC	1.50	1.58	Passed
do		1.55	Passed
Dr. Hess and Clark, Inc.			
Dr. ness and Clark, Inc.			
Dr. Hess Roost Paint Six Mite Spray			

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Dr. L. D. LeGear Medicine Company		NGSCTABA	i chapula
Dr. LeGear's New Louse Powder			
Gamma isomer of BHC	1.00	0.97	Passed
do	1.00	0.97	Passed
do	1.00	1.02	Passed
do	1.00	1.04	Passed
Naco Fertilizer Company			
Pure Gam Dust No. 10			
Gamma isomer of BHC	1.00	1.14	Not registered
Ralston Purina Company			
Purina Roost Paint			
Gamma isomer of BHC	4.00	3.89	Passed
do	4.00	3.96	Passed
Rigo Manufacturing Company			
Killo Lindane			
Gamma isomer of BHC	13.00	12.58	Passed
Dr. Salsbury's Laboratories			
Dr. Salsbury's Vapo Roost			
Gamma isomer of BHC	1.30	1.55	Passed
Southern Agricultural Insecticides, Inc.			
Special 1% Gamma Dust			
Gamma isomer of BHC	1.00	1.34	Passed
do	1.00	0.88	Deficient
BHC — CYCLOHEXANONE			
General Chemical Division Allied Chemical & Dye Corp.			
Orchard Brand 20% Lindane			
Gamma isomer of BHC	20.00	21.13	Passed
Cyclohexanone	5.50	Present	
Gamma isomer of BHC	20.00	20.71	Passed
Cyclohexanone	5.50	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
BHC — CYCLOHEXANONE —			
METHALATED NAPHTHALENES			
Acme Quality Paints, Inc.			
Acme 5% Lindane Spray			
Gamma isomer of BHC		5.01	Passed
Cyclohexanone		Present	
Methalated naphthalenes	3.75	Present	
Gamma isomer of BHC	5.00	5.09	Passed
Cyclohexanone	2.50	Present	
Methalated naphthalenes	3.75	Present	
BHC — PINE OIL			
Ralston Purina Company			
Purina Poultry Insecticide			
Gamma isomer of BHC	1.50	1.55	Passed
Pine oil		Present	
BHC — PYRETHRINS			
Carter Insecticide & Chemical Company			
Carter Carolina Brand Household Insect Spray			
Gamma isomer of BHC	0.10	0.090	Passed
Pyrethrins		0.142	rassea
Perfume		Present	
Gamma isomer of BHC	0.10	0.200	Passed
Pyrethrins		0.280	Passed
Perfume		Present	
		rresem	
BHC — DDT			
Acme Fertilizer Company			
3% BHC — 5% DDT Cotton Insecticide Dust			
Gamma isomer of BHC		3.06	Passed
DDT	5.00	5.14	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	5.00	5.25	
Gamma isomer of BHC	3.00	3.16	Passed
DDT		5.21	rassea

Nanufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
% BHC — 5% DDT Cotton Insecticide D	Oust (Continued)		
Gamma isomer of BHC	3.00	3.10	Passed
DDT	5.00	5.02	
Gamma isomer of BHC	3.00	2.66	Deficient
DDT	5.00	5.99	
Acme 3% BHC 10% DDT			· Landiday
Gamma isomer of BHC	3.00	2.92	Passed
DDT	10.00	10.30	
Atlas Chemical Corporation			
Atlas Cotton Dust 3-5-0			
Gamma isomer of BHC	3.00	3.09	Passed
DDT		4.91	, 55554
California Spray-Chemical Corp.			
Ortho Gammacide 3-5 Cotton Dust			
Gamma isomer of BHC		2.85	Passed
DDT	5.00	4.96	
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	4.91	
Gamma isomer of BHC	3.00	3.39	Passed
DDT	5.00	5.14	
Gamma isomer of BHC	3.00	2.85	Passed
DDT		5.01	1 83360
			10 100
Gamma isomer of BHC		2.93	Passed
DDT	5.00	4.84	
Gamma isomer of BHC	3.00	2.89	Passed
DDT	5.00	5.04	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	5.06	
Gamma isomer of BHC	3.00	2.96	Passed
DDT		6.03	. 40000
Gamma isomer of BHC	3.00	3.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ortho Gammacide 3-5 Cotton Dust (Continued	)	1	La roy - the Con-
Office Callimaciae C G Collett 2001 (Collimacia	,		
Gamma isomer of BHC	3.00	2.98	Passed
DDT	5.00	4.87	
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	4.96	
Gamma isomer of BHC	3.00	2.87	Passed
DDT	5.00	4.83	
Gamma isomer of BHC	3.00	2.96	Passed
DDT	5.00	4.94	
Gamma isomer of BHC	3.00	3.14	Passed
DDT	5.00	5.17	
Gamma isomer of BHC	3.00	3.05	Passed
DDT .		5.47	Committee of the Commit
Gamma isomer of BHC	3.00	3.33	Passed
DDT		4.87	7 03300
Gamma isomer of BHC	3.00	2.73	Deficient
DDT		5.29	Deficient
			200
Gamma isomer of BHC		2.26	Deficient
DDT	5.00	13.00	
Ortho Gammacide 3-10 Cotton Dust			
Gamma isomer of BHC	3.00	2.98	Passed
DDT	10.00	9.62	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	10.00	10.60	
Ortho 1038			
Gamma isomer of BHC		4.83	Passed
DDT	25.00	25.20	
Carolina Chemicals, Inc.			
Flight BHC — DDT Dust			
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.08	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Flight BHC — DDT Dust (Continued)			
Gamma isomer of BHC	3.00	3.04	Passed
DDT	5.00	5.08	
Gamma isomer of BHC	3.00	3.04	Passed
DDT	5.00	5.43	
Gamma isomer of BHC	3.00	2.60	Deficient
DDT	5.00	4.36	
E I du Part de Nameure & Company			
E. I. du Pont de Nemours & Company  Du Pont Cotton Dust 350			
Gamma isomer of BHC	3.00	2.98	Passed
DDT		5.09	, 4000 4
Gamma isomer of BHC	3.00	3.05	Passed
DDT		5.19	
Gamma isomer of BHC	3.00	2.94	Passed
DDT	5.00	4.80	
Gamma isomer of BHC	3.00	3.19	Passed
DDT	5.00	5.10	
Gamma isomer of BHC	3.00	3.17	Passed
DDT	5.00	4.80	
Gamma isomer of BHC	3.00	2.60	Deficient
DDT	5.00	5.34	
Communication Englands Inc.			
c.X. 3-5-0 BHC-DDT Cotton Dust			
Gamma isomer of BHC	3.00	3.03	Passed
DDT		5.05	
Gamma isomer of BHC	3.00	3.21	Passed
DDT		5.25	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.75	
Gamma isomer of BHC	3.00	3.36	Passed
DDT		4.88	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
F.C.X. 3-5-0 BHC-DDT Cotton Dust (Continued)			
Gamma isomer of BHC	3.00	3.64	Passed
DDT	5.00	5.44	
Gamma isomer of BHC	3.00	3.47	Passed
DDT		5.62	rasseu
Gamma isomer of BHC		3.23	Passed
DDT	5.00	5.00	
Gamma isomer of BHC	3.00	3.02	Passed
DDT	5.00	5.55	
Gamma isomer of BHC	3.00	3.16	Passed
DDT		4.98	1 03360
Gamma isomer of BHC		3.06	Passed
DDT	5.00	5.02	
Gamma isomer of BHC	3.00	2.87	Passed
DDT	5.00	4.81	
Gamma isomer of BHC	3.00	3.01	Passed
DDT		4.91	1 33304
			to making the right
Gamma isomer of BHC		3.36	Deficient
DDT	5.00	4.45	
Gamma isomer of BHC	3.00	2.40	Deficient
DDT	5.00	7.27	
Geigy Company, Inc.			
Geigy 3-5 Cotton Dust			
Committee of BUG	2.22		
Gamma isomer of BHC		2.88	Passed
DDT	5.00	4.97	
Gamma isomer of BHC	3.00	3.03	Passed
DDT	5.00	5.26	
Commo isomer of BUC	2.00	0.01	2 1
Gamma isomer of BHC		2.91	Passed
	5.00	5.00	
Gamma isomer of BHC	3.00	3.21	Passed
DDT	5.00	5.04	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Geigy 3-5 Cotton Dust (Continued)			
Gamma isomer of BHC	3.00	3.02	Passed
DDT	5.00	5.36	
Gamma isomer of BHC	3.00	2.89	Passed
DDT	5.00	5.67	
Gamma isomer of BHC	3.00	2.86	Passed
DDT	5.00	5.19	
Gamma isomer of BHC	3.00	3.06	Passed
DDT	5.00	5.42	
Gamma isomer of BHC	3.00	3.14	Passed
DDT		5.02	
Gamma isomer of BHC	3.00	3.11	Passed
DDT		5.13	1 03300
		. 70	
DDT		2.78 7.06	Deficient
DD1	5.00	7.00	
Geigy 3-10 Cotton Dust			
Gamma isomer of BHC	3.00	3.10	Passed
DDT	10.00	9.67	
General Chemical Division		*	
Allied Chemical & Dye Corp.			
Orchard Brand 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	5.42	
Gamma isomer of BHC	3.00	2.98	Passed
DDT	5.00	5.38	
Gamma isomer of BHC	3.00	3.18	Passed
DDT	5.00	5.13	
Gamma isomer of BHC	3.00	3.49	Passed
DDT		5.88	
Gamma isomer of BHC	3.00	2.94	Passed
DDT		5.56	1 00000
Gamma isomer of BHC		3.33	Passed
DDT		5.33	rasseu

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Orchard Brand 3-5 Cotton Dust (Continued)			
Gamma isomer of BHC	3.00	2.76	Deficient
DDT		4.83	
Gamma isomer of BHC	3.00	2.80	Deficient
DDT	5.00	5.15	
Gamma isomer of BHC	3.00	2.72	Deficient
DDT	5.00	4.90	
Gamma isomer of BHC	3.00	2.77	Deficient
DDT	5.00	5.32	
Orchard Brand 3-10 Cotton Dust			
Gamma isomer of BHC	3.00	3.13	Passed
DDT	10.00	9.97	
Asabisson Assistalated Chamitala Ca			
Mathieson Agricultural Chemicals Co.			
Mathieson 3-5 Cotton Dust  Gamma isomer of BHC	2.00	2.24	
DDT		3.04 5.00	Passed
		3.00	
Nathieson 3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	2.96	Deficient
DDT	10.00	9.04	
laco Fertilizer Company			
enny-Hex Cotton Dust 3-5-0-H			
Gamma isomer of BHC	3.00	3.11	Passed
DDT	5.00	4.75	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	5.00	4.92	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.64	
Gamma isomer of BHC	3.00	3.08	Passed
DDT	5.00	4.99	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	5.00	5.33	

nufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ny-Hex Cotton Dust 3-5-0-H (Continued)			
Gamma isomer of BHC	3.00	2.85	Passed
DDT	5.00	5.29	
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	5.41	
Gamma isomer of BHC	3.00	2.67	Deficient
DDT	5.00	4.80	
Gamma isomer of BHC	3.00	2.77	Deficient
DDT	5.00	5.41	
Gamma isomer of BHC	3.00	2.63	Deficient
DDT	5.00	5.09	
Gamma isomer of BHC	3.00	2.82	Deficient
DDT	5.00	4.80	
Gamma isomer of BHC	3.00	2.82	Deficient
DDT	5.00	5.06	
Gamma isomer of BHC	3.00	2.55	Deficient
DDT	5.00	5.02	
Gamma isomer of BHC	3.00	2.75	Deficient
DD <sup>+</sup>	5.00	4.91	
Gamma isomer of BHC	3.00	2.69	Deficient
DDT	5.00	5.72	
Gamma isomer of BHC	3.00	2.71	Deficient
DDT	5.00	4.87	
Gamma isomer of BHC	3.00	3.03	Deficient
DDT	5.00	3.38	
agara Chemical Division			
agara Two-N-One Cotton Dust			
Gamma isomer of BHC	3.00	2.93	Passed
DDT	5.00	5.69	100
Gamma isomer of BHC	3.00	2.95	Passed
DDT	5.00	5.49	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Niagara Two-N-One Cotton Dust (Continued	)		
Gamma isomer of BHC	3.00	2.90	Passed
DDT	5.00	5.50	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.49	
Gamma isomer of BHC	3.00	3.02	Passed
DDT		5.54	Second second
Communication of BUC	3.00	3.07	Daniel
Gamma isomer of BHC		5.45	Passed
001	5.00	5.45	
Gamma isomer of BHC	3.00	2.74	Deficient
DDT	5.00	5.68	
W. R. Peele Company, Inc.			
Pelco 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	3.29	Passed
DDT		5.43	1 03300
			100
Gamma isomer of BHC		3.05	Passed
DDT	5.00	5.43	
Gamma isomer of BHC	3.00	2.85	Passed
DDT	5.00	5.46	
Planters Chemical Corporation			
Planters 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.11	Passed
DDT		5.68	1 43304
	,		
Gamma isomer of BHC		3.08	Passed
DDT	5.00	4.85	
Ralston Purina Company			
Purina Stock Spray			
Gamma isomer of BHC	2.50	2.75	Passed
DDT	45.00	46.34	
Purina Fly Spray			
Gamma isomer of BHC	0.50	0.92	Passed
DDT		48.14	rassed

Found er Cent [	Decisions
0.54 Pa	ssed
50.07	
0.63 Pas	ssed
50.60	
0.57 Pas	ssed
50.52	
3.03 Pas	ssed
5.26	
3.26 Pas	ssed
5.55	
3.02 Pas	ssed
5.33	
3.34 Pas	ssed
4.91	
3.16 Pas	ssed
5.23	
2.92 Pas	ssed
5.06	
2.62 De	ficient
5.31	
3.13 Det	ficient
9.16	
3.04 Pas	sed
	5.92

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Stevens Industries, Inc.			
Master 3-5 Cotton Dust			
Gamma isomer of BHC	3.00	3.32	Passed
DDT	5.00	4.81	
Gamma isomer of BHC	3.00	3.26	Deficient
DDT	5.00	4.34	
Swift & Company			
Gold Bear Brand Insecticide Dust BD-35			
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.31	
Gold Bear Brand Insecticide Dust BD-310			
Gamma isomer of BHC	3.00	3.68	Passed
DDT	10.00	10.38	
Taylor Chemical Company			
Superkill 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.16	Passed
DDT		4.94	a marchal entered
Gamma isomer of BHC	3.00	2.99	Passed
DDT		5.11	1 dassed
Gamma isomer of BHC		3.16	Passed
DDT	5.00	5.05	
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	5.07	
Gamma isomer of BHC	3.00	3.36	Passed
DDT	5.00	5.41	
Gamma isomer of BHC	3.00	3.21	Passed
DDT	5.00	5.49	
Gamma isomer of BHC	3.00	3.19	Passed
DDT		5.10	
Gamma isomer of BHC	3.00	3.19	Passed
DDT		5.26	1 03360
		land ou	
Gamma isomer of BHC		3.00	Passed
.DDT	5.00	5.09	

nufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
erkill 3-5-0 Cotton Dust (Continued)			
Gamma isomer of BHC	3.00	3.20	Passed
DDT	5.00	5.14	
Gamma isomer of BHC	3.00	2.92	Passed
DDT	5.00	5.34	
Gamma isomer of BHC	3.00	3.09	Passed
DDT	5.00	5.10	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	5.05	
Gamma isomer of BHC	3.00	3.08	Passed
DDT	5.00	5.01	
Gamma isomer of BHC	3.00	3.22	Passed
DDT	5.00	5.14	
Gamma isomer of BHC	3.00	3.07	Passed
DDT	5.00	5.42	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.95	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	4.96	
Gamma isomer of BHC	3.00	3.25	Passed
DDT	5.00	5.23	
Gamma isomer of BHC	3.00	2.60	Deficient
DDT	5.00	4.54	
erkill 3-10 Cotton Dust			
Gamma isomer of BHC		2.88	Passed
DDT	10.00	9.63	
acco By-Products & Chemical Corp.			
ck Leaf 3-5-0 Cotton Dust  Gamma isomer of BHC	2.00	2.22	Danash
DDT		3.33 4.77	Passed
ck Leaf 3-10-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.02	Passed
DDT		9.84	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Job P. Wyatt & Sons Company			
Wyatt's 3-5-0 Cotton Dust			
Gamma isomer of BHC	3.00	3.28	Passed
DDT		5.19	
BHC — DDT — SULFUR			
Acme Fertilizer Company			
Acme 3% BHC 5% DDT 40% Sulfur			
Gamma isomer of BHC	3.00	3.04	Passed
DDT	5.00	5.26	
Sulfur		40.56	
Salifarnia Sanon Chamical Com			
California Spray-Chemical Corp.			
Gammacide Cotton Dust 3-5-40			
Gamma isomer of BHC		3.05	Passed
DDT		5.02	
Sulfur	40.00	38.26	
Gamma isomer of BHC	3.00	3.03	Deficient
DDT	5.00	5.28	
Sulfur	40.00	37.38	
Gamma isomer of BHC	3.00	2.98	Deficient
DDT		2.04	
Sulfur		10.70	
r ola i la la			
Carolina Chemicals, Inc.			
light Brand 3-5-40 Cotton Dust			
Gamma isomer of BHC		3.04	Passed
DDT		5.04	
Sulfur	40.00	39.42	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.31	- Install
Sulfur	40.00	40.68	
Farmers Cooperative Exchange, Inc.			
F.C.X. 3-5-40 BHC DDT Sulfur			
Gamma isomer of BHC	3.00	2.95	Passed
DDT		4.97	rassed
Sulfur		42.46	

Manufactu	rers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
C.X. 3-5-	40 BHC — DDT — Sulfur (	(Continued)		
Gamn	na isomer of BHC	3.00	3.53	Deficient
DDT .		5.00	4.52	
Sulfur		40.00	43.98	
Seigy Com	pany, Inc.			
Geigy 3-5-	40 Cotton Dust			
Gamn	na isomer of BHC	3.00	2.85	Passed
DDT .		5.00	5.18	
Sulfur		40.00	40.54	
Gamn	na isomer of BHC	3.00	3.06	Passed
DDT .		5.00	5.17	
Sulfu		40.00	43.00	
Gamr	na isomer of BHC	3.00	3.11	Passed
DDT		5.00	5.26	
Sulfu		40.00	42.34	
Gamr	ma isomer of BHC	3.00	3.10	Passed
DDT	***************************************	5.00	5.65	
Sulfu		40.00	41.30	
Gamr	na isomer of BHC	3.00	3.00	Passed
DDT	****************************	5.00	5.00	
Sulfu		40.00	42.92	
	ma isomer of BHC		2.95	Passed
DDT		5.00	5.02	
Sulfu	r	40.00	44.52	
Gamr	ma isomer of BHC	3.00	2.88	Passed
DDT	***************************************	5.00	5.21	
Sulfu	r	40.00	41.08	
Gami	ma isomer of BHC	3.00	2.88	Passed
DDT		5.00	4.85	
Sulfu	r	40.00	42.24	
Gami	ma isomer of BHC	3.00	3.11	Passed
DDT	* ***********************************	5.00	5.56	
Sulfu	r	40.00	44.48	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Geigy 3-10-40 Cotton Dust			
Gamma isomer of BHC	3.00	2.88	Passed
DDT	10.00	9.94	
Sulfur	40.00	40.08	
Gamma isomer of BHC	3.00	3.11	Deficient
DDT	10.00	6.15	
Sulfur	40.00	44.72	
General Chemical Division Allied Chemical & Dye Corp.			
Orchard Brand 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.15	Passed
DDT	5.00	4.85	
Sulfur	40.00	41.52	
Gamma isomer of BHC	3.00	3.31	Passed
DDT	5.00	5.17	
Sulfur	40.00	38.80	
Gamma isomer of BHC	3.00	2.90	Deficient
DDT	5.00	4.75	
Sulfur	40.00	30.94	
Orchard Brand 3-10-40 Cotton Dust			
Gamma isomer of BHC	3.00	2.85	Passed
DDT	10.00	9.95	
Sulfur	40.00	43.46	
ohnson Cotton Company			
Southern Quality 3-5-40 Dust			
Gamma isomer of BHC	3.00	2.93	Passed
• DDT	5.00	5.14	
Sulfur	40.00	38.26	
Naco Fertilizer Company		3/11	
Benny-Hex Cotton Dust 3-5-40			
Gamma isomer of BHC	3.00	3.06	Passed
DDT	5.00	5.22	
Sulfur	40.00	41.12	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Benny-Hex Cotton Dust 3-5-40-H (Continued)			
Gamma isomer of BHC	3.00	3.42	Passed
DDT		5.45	1 00300
Sulfur		40.02	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.15	
Sulfur	40.00	39.36	
Gamma isomer of BHC	3.00	2.87	Passed
DDT	5.00	5.95	
Sulfur	40.00	41.00	
Gamma isomer of BHC	3.00	2.88	Passed
DDT	5.00	5.31	
Sulfur	40.00	41.26	
Gamma isomer of BHC	3.00	2.82	Deficient
DDT	5.00	4.95	
Sulfur	40.00	39.66	
Niagara Chemical Division			
Niagara Three-N-One Cotton Dust			
Gamma isomer of BHC	3.00	2.96	Passed
DDT	5.00	5.51	
Sulfur	40.00	42.56	
Gamma isomer of BHC	3.00	3.00	Passed
DDT	5.00	5.20	
Sulfur	40.00	40.86	
Gamma isomer of BHC		2.90	Passed
DDT		6.69	
Sulfur	40.00	40.64	
New Pomo-Green			
Gamma isomer of BHC	1.00	1.10	Passed
DDT		5.78	
Sulfur	62.00	62.84	
Nitrogen Division Allied Chemical & Dye Corp.			
Arcadian 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	2.88	Passed
DDT		5.29	
Sulfur	40.00	41.02	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele & Company			
Pelco 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	2.72	Deficient
DDT		5.12	
Sulfur	40.00	41.96	
Gamma isomer of BHC	3.00	2.90	Deficient
DDT		4.67	Deficient
Sulfur		39.82	
Standard Fertilizer Company			
Gro-More 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.39	Passed
DDT		5.11	
Sulfur	40.00	38.04	
Gamma isomer of BHC	3.00	2.91	Passed
DDT		5.56	1000
Sulfur		41.10	
Gro-More 3-10-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.25	Passed
DDT	10.00	9.89	
Sulfur	40.00	39.38	
Stauffer Chemical Company			
Cotton Dust No. 122			
Gamma isomer of BHC	3.00	3.07	Passed
DDT	5.00	5.25	
Sulfur	40.00	40.74	
			y Maria Maria
Stevens Industries, Inc.			
Master 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.13	Passed
DDT		4.75	
Sulfur	40.00	41.60	
Gamma isomer of BHC	3.00	3.22	Deficient
DDT	5.00	4.39	
Sulfur	40.00	42.46	

Swift & Company           Gold Bear Brand Insecticide Dust BDS 354           Gamma isomer of BHC         3.00         3.09         Passed           DDT         5.00         5.35         Sulfur         40.00         40.00           Taylor Chemical Company           Superkill 3-5-40 Cotton Dust           Gamma isomer of BHC         3.00         3.17         Passed           DDT         5.00         5.18           Sulfur         40.00         41.96           Gamma isomer of BHC         3.00         3.11         Passed           DDT         5.00         5.47           Sulfur         40.00         48.16           Gamma isomer of BHC         3.00         3.14         Passed           DDT         5.00         5.38           Sulfur         40.00         40.48           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.02           Sulfur         40.00         41.00           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.20           Sulfur         40.00         41.08	Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Gold Bear Brand Insecticide Dust BDS 354  Gamma isomer of BHC	Swift & Company			Agrees & House &
Gamma isomer of BHC         3.00         3.09         Passed           DDT         5.00         5.35           Sulfur         40.00         40.00           Taylor Chemical Company           Superkill 3-5-40 Cotton Dust           Gamma isomer of BHC         3.00         3.17         Passed           DDT         5.00         5.18         Sulfur         40.00         41.96           Gamma isomer of BHC         3.00         3.11         Passed           DDT         5.00         5.47         Sulfur         40.00         48.16           Gamma isomer of BHC         3.00         3.14         Passed           DDT         5.00         5.38         Sulfur         40.00         40.48           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.02         Sulfur         40.00         41.00           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.14         Sulfur         40.00         41.72           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.20 <t< td=""><td></td><td></td><td></td><td></td></t<>				
DDT         5.00         5.35           Sulfur         40.00         40.00           Taylor Chemical Company           Superkill 3-5-40 Cotton Dust           Gamma isomer of BHC         3.00         3.17         Passed           DDT         5.00         5.18         Sulfur         40.00         41.96           Gamma isomer of BHC         3.00         3.11         Passed           DDT         5.00         5.47         Sulfur         40.00         48.16           Gamma isomer of BHC         3.00         3.14         Passed         Passed           DDT         5.00         5.38         Sulfur         40.00         40.48         Augusta Sulfur         40.00         40.48         Augusta Sulfur         Augusta Sulfur         40.00         40.48         Augusta Sulfur         Au		2.00	2.00	Daniel
Sulfur         40.00         40.00           Taylor Chemical Company           Superkill 3-5-40 Cotton Dust         Gamma isomer of BHC         3.00         3.17         Passed           DDT         5.00         5.18           Sulfur         40.00         41.96           Gamma isomer of BHC         3.00         3.11         Passed           DDT         5.00         5.38           Sulfur         40.00         40.48           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.14           Sulfur         40.00         41.72           Gamma isomer of BHC         3.00         3.02         Passed           DDT         5.00         5.21           Sulfur         40.00         41.08           Gamma isomer of BHC         3.00         3.00         3.00 <td></td> <td></td> <td></td> <td>Passed</td>				Passed
Taylor Chemical Company           Superkill 3-5-40 Cotton Dust         3.00         3.17         Passed           DDT         5.00         5.18           Sulfur         40.00         41.96           Gamma isomer of BHC         3.00         3.11         Passed           DDT         5.00         5.47           Sulfur         40.00         48.16           Gamma isomer of BHC         3.00         3.14         Passed           DDT         5.00         5.38           Sulfur         40.00         40.48           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.02           Sulfur         40.00         41.00           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.14         Sulfur         40.00         41.72           Gamma isomer of BHC         3.00         3.27         Passed           DDT         5.00         5.20         Sulfur         40.00         41.08           Gamma isomer of BHC         3.00         3.00         Passed           DDT         5.00         5.21         5.20				
Superkill 3-5-40 Cotton Dust         Gamma isomer of BHC       3.00       3.17       Passed         DDT       5.00       5.18         Sulfur       40.00       41.96         Gamma isomer of BHC       3.00       3.11       Passed         DDT       5.00       5.47         Sulfur       40.00       48.16         Gamma isomer of BHC       3.00       3.14       Passed         DDT       5.00       5.38         Sulfur       40.00       40.48         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         G	301101	40.00	40.00	
Superkill 3-5-40 Cotton Dust         Gamma isomer of BHC       3.00       3.17       Passed         DDT       5.00       5.18         Sulfur       40.00       41.96         Gamma isomer of BHC       3.00       3.11       Passed         DDT       5.00       5.47         Sulfur       40.00       48.16         Gamma isomer of BHC       3.00       3.14       Passed         DDT       5.00       5.38         Sulfur       40.00       40.48         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         G	Taylor Chemical Company			
Gamma isomer of BHC         3.00         3.17         Passed           DDT         5.00         5.18           Sulfur         40.00         41.96           Gamma isomer of BHC         3.00         3.11         Passed           DDT         5.00         5.47           Sulfur         40.00         48.16           Gamma isomer of BHC         3.00         3.14         Passed           DDT         5.00         5.38           Sulfur         40.00         40.48           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.02           Sulfur         40.00         41.00           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.20           Sulfur         40.00         41.08           Gamma isomer of BHC         3.00         3.00         Passed           DDT         5.00         5.21           Sulfur         40.00         41.08           Gamma isomer of BHC         3.00         3.09         Passed           DDT         5.00         5.28           Sulfur         40.00 <td></td> <td></td> <td></td> <td></td>				
DDT         5.00         5.18           Sulfur         40.00         41.96           Gamma isomer of BHC         3.00         3.11         Passed           DDT         5.00         5.47           Sulfur         40.00         48.16           Gamma isomer of BHC         3.00         3.14         Passed           DDT         5.00         5.38           Sulfur         40.00         40.48           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.02           Sulfur         40.00         41.00           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.14           Sulfur         40.00         41.72           Gamma isomer of BHC         3.00         3.27         Passed           DDT         5.00         5.20           Sulfur         40.00         41.08           Gamma isomer of BHC         3.00         3.00         Passed           DDT         5.00         5.21           Sulfur         40.00         42.30           Gamma isomer of BHC         3.00         3.09				
Sulfur       40.00       41.96         Gamma isomer of BHC       3.00       3.11       Passed         DDT       5.00       5.47         Sulfur       40.00       48.16         Gamma isomer of BHC       3.00       3.14       Passed         DDT       5.00       5.38         Sulfur       40.00       40.48         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60				Passed
Gamma isomer of BHC         3.00         3.11         Passed           DDT         5.00         5.47           Sulfur         40.00         48.16           Gamma isomer of BHC         3.00         3.14         Passed           DDT         5.00         5.38           Sulfur         40.00         40.48           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.02           Sulfur         40.00         41.00           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.14           Sulfur         40.00         41.72           Gamma isomer of BHC         3.00         3.27         Passed           DDT         5.00         5.20           Sulfur         40.00         41.08           Gamma isomer of BHC         3.00         3.00         Passed           DDT         5.00         5.21           Sulfur         40.00         41.60           Gamma isomer of BHC         3.00         3.09         Passed           DDT         5.00         5.28           Sulfur         40.00 <td></td> <td></td> <td></td> <td></td>				
DDT         5.00         5.47           Sulfur         40.00         48.16           Gamma isomer of BHC         3.00         3.14         Passed           DDT         5.00         5.38           Sulfur         40.00         40.48           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.02           Sulfur         40.00         41.00           Gamma isomer of BHC         3.00         3.03         Passed           DDT         5.00         5.14           Sulfur         40.00         41.72           Gamma isomer of BHC         3.00         3.27         Passed           DDT         5.00         5.20           Sulfur         40.00         41.08           Gamma isomer of BHC         3.00         3.00         Passed           DDT         5.00         5.21           Sulfur         40.00         42.30           Gamma isomer of BHC         3.00         3.09         Passed           DDT         5.00         5.28           Sulfur         40.00         41.60           Gamma isomer of BHC         3.00         3.16	Sulfur	40.00	41.96	
Sulfur       40.00       48.16         Gamma isomer of BHC       3.00       3.14       Passed         DDT       5.00       5.38         Sulfur       40.00       40.48         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60	Gamma isomer of BHC	3.00	3.11	Passed
Gamma isomer of BHC       3.00       3.14       Passed         DDT       5.00       5.38         Sulfur       40.00       40.48         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60	DDT	5.00	5.47	
DDT       5.00       5.38         Sulfur       40.00       40.48         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	Sulfur	40.00	48.16	
Sulfur       40.00       40.48         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	Gamma isomer of BHC	3.00	3.14	Passed
Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	DDT	5.00	5.38	
DDT       5.00       5.02         Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	Sulfur	40.00	40.48	
Sulfur       40.00       41.00         Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	Gamma isomer of BHC	3.00	3.03	Passed
Gamma isomer of BHC       3.00       3.03       Passed         DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	DDT	5.00	5.02	
DDT       5.00       5.14         Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	Sulfur	40.00	41.00	
Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	Gamma isomer of BHC	3.00	3.03	Passed
Sulfur       40.00       41.72         Gamma isomer of BHC       3.00       3.27       Passed         DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	DDT	5.00	5.14	
DDT       5.00       5.20         Sulfur       40.00       41.08         Gamma isomer of BHC       3.00       3.00       Passed         DDT       5.00       5.21         Sulfur       40.00       42.30         Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	,		41.72	
Sulfur     40.00     41.08       Gamma isomer of BHC     3.00     3.00     Passed       DDT     5.00     5.21       Sulfur     40.00     42.30       Gamma isomer of BHC     3.00     3.09     Passed       DDT     5.00     5.28       Sulfur     40.00     41.60       Gamma isomer of BHC     3.00     3.16     Passed       DDT     5.00     5.10	Gamma isomer of BHC	3.00	3.27	Passed
Sulfur     40.00     41.08       Gamma isomer of BHC     3.00     3.00     Passed       DDT     5.00     5.21       Sulfur     40.00     42.30       Gamma isomer of BHC     3.00     3.09     Passed       DDT     5.00     5.28       Sulfur     40.00     41.60       Gamma isomer of BHC     3.00     3.16     Passed       DDT     5.00     5.10	DDT	5.00	5.20	
DDT     5.00     5.21       Sulfur     40.00     42.30       Gamma isomer of BHC     3.00     3.09     Passed       DDT     5.00     5.28       Sulfur     40.00     41.60       Gamma isomer of BHC     3.00     3.16     Passed       DDT     5.00     5.10			41.08	
DDT     5.00     5.21       Sulfur     40.00     42.30       Gamma isomer of BHC     3.00     3.09     Passed       DDT     5.00     5.28       Sulfur     40.00     41.60       Gamma isomer of BHC     3.00     3.16     Passed       DDT     5.00     5.10	Gamma isomer of BHC	3.00	3.00	Passed
Gamma isomer of BHC       3.00       3.09       Passed         DDT       5.00       5.28         Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	DDT	5.00	5.21	
DDT     5.00     5.28       Sulfur     40.00     41.60       Gamma isomer of BHC     3.00     3.16     Passed       DDT     5.00     5.10	Sulfur	40.00	42.30	
Sulfur       40.00       41.60         Gamma isomer of BHC       3.00       3.16       Passed         DDT       5.00       5.10	Gamma isomer of BHC	3.00	3.09	Passed
Gamma isomer of BHC         3.00         3.16         Passed           DDT         5.00         5.10	DDT	5.00	5.28	nig
DDT	Sulfur	40.00	41.60	
	Gamma isomer of BHC	3.00	3.16	Passed
Sulfur 40.00 41.02	DDT	5.00	5.10	
	Sulfur	40.00	41.02	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Superkill 3-5-40 Cotton Dust (Continued)	Thouse	mid my	anis de la como
Gamma isomer of BHC	3.00	3.07	Passed
DDT		5.04	1 03360
Sulfur		42.57	
Gamma isomer of BHC	3.00	3.09	Passed
DDT	5.00	5.21	
Sulfur	40.00	41.58	
Gamma isomer of BHC	3.00	3.12	Passed
DDT	5.00	5.15	00
Sulfur	40.00	41.02	20108
Gamma isomer of BHC	3.00	3.02	Passed
DDT	5.00	5.08	
Sulfur	40.00	43.32	
Gamma isomer of BHC	3.00	2.97	Passed
DDT	5.00	5.09	A STATE OF THE PARTY OF
Sulfur	40.00	43.82	1 1980
Gamma isomer of BHC	3.00	3.27	Passed
DDT	5.00	5.33	Nontries of the state of
Sulfur	40.00	40.76	onkel like
Gamma isomer of BHC	3.00	3.12	Passed
DDT	5.00	5.26	
Sulfur	40.00	41.74	and the same
Gamma isomer of BHC		2.88	Passed
DDT		5.11	100 .
Sulfur	40.00	41.68	
Gamma isomer of BHC	3.00	3.10	Passed
DDT	5.00	5.30	*
Sulfur	40.00	41.24	
Gamma isomer of BHC		3.08	Passed
DDT		5.28	
Sulfur	40.00	40.92	The Callie of
Gamma isomer of BHC	3.00	3.21	Passed
DDT	5.00	5.38	1004
Sulfur	40.00	41.54	a Wit.

lanufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
uperkill 3-5-40 Cotton Dust (Continued)	draws	ma in the	
Gamma isomer of BHC	3.00	2.87	Passed
DDT		4.65	
Sulfur		40.04	
Gamma isomer of BHC	3.00	3.00	Passed
DDT		5.17	
Sulfur		40.80	
Gamma isomer of BHC	3.00	2.77	Deficient
DDT		5.11	Delicieni
Sulfur		44.06	
Sultur	40.00	44.06	
uperkill 3-10-40 Cotton Dust			
Gamma isomer of BHC		3.09	Passed
DDT		10.72	
Sulfur	40.00	40.92	
Gamma isomer of BHC	3.00	2.93	Passed
DDT	10.00	9.96	
Sulfur	40.00	41.66	
obacco By-Products & Chemical Corp.			
lack Leaf 3-5-40 Cotton Dust			
Gamma isomer of BHC	3.00	3.02	Passed
DDT		5.02	rasseu
Sulfur		42.26	
Gamma isomer of BHC		3.13	Passed
DDT		5.46	
Sulfur	40.00	41.52	
Gamma isomer of BHC	3.00	3.04	Passed
DDT	5.00	5.37	
Sulfur	40.00	42.86	
301101			
Gamma isomer of BHC	3.00	3.45	Passed
		<b>3</b> .45 5.50	Passed
Gamma isomer of BHC	5.00		Passed
Gamma isomer of BHC	5.00	5.50	Passed Passed
Gamma isomer of BHC	5.00	5.50 41.70	1

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
slack Leaf 3-5-40 Cotton Dust (Continued)			
Gamma isomer of BHC	<b>3.00</b>	2.85	Passed
DDT	5.00	5.23	
Sulfur	40.00	42.96	
BHC — DDT — METHYL NAPHTHALENE			
ennsylvania Salt Manufacturing Co.			
HC - DDT Emulsion 3-5			
Gamma isomer of BHC	8.70	8.84	Passed
DDT	14.50	17.22	
Methylated naphthalenes	35.50	Present	
BHC - DDT - SULFUR -FERBAM			
alifornia Spray-Chemical Corp.			
ortho Rose Dust			
Gamma isomer of BHC	1.00	0.95	Deficient
DDT	5.00	4.49	
Sulfur	_ 40.00	41.36	
Ferric dimethyl dithiocarbamate	6.70	5.12	
arbola Chemical Company, Inc.			
CC Fruit Tree Spray			
Gamma isomer of BHC	0.50	0.54	Passed
DDT	7.00	7.25	
Sulfur	33.00	32.88	
Ferric dimethyl dithiocarbamate	5.00	5.26	
Gamma isomer of BHC	0.50	0.48	Deficient
DDT	7.00	6.80	
Sulfur	33.00	31.60	
Ferric dimethyl dithiocarbamate	5.00	3.11	
entral Chemical Corp.			
armrite Rose Dust or Spray			-
Gamma isomer of BHC	1.25	1.42	Deficient
DDT		4.93	
Sulfur	25.00	26.54	
Ferric dimethyl dithiocarbamate	_ 7.50	6.44	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Seacoast Laboratories, Inc.			
Twin Light Sprayall			
Gamma isomer of BHC	1.00	0.81	Deficient
DDT	6.25	5.72	
Sulfur	47.50	51.68	
Ferric dimethyl dithiocarbamate	6.30	5.33	
Southern Agricultural Insecticides, Inc.			
SA-50 Rose Dust			
Gamma isomer of BHC	1.00	1.01	Passed
DDT	5.00	5.78	
Sulfur	54.00	52.48	
Ferric dimethyl dithiocarbamate	6.50	6.56	
CHLORDANE			
Acme Quality Paints, Inc.			
Acme 6% Chlordane Dust			
Technical chlordane	6.00	5.77	Passed
do	6.00	6.82	Passed
California Spray-Chemical Corp.			
Ortho Ant and Moth Syray			of the standard
Technical chlordane	2.50	2.60	Passed
Ortho Klor 40% Wettable Chlordane	,		
Technical chlordane	40.00	40.17	Passed
do	40.00	38.03	Passed
Cape Fear Chemical Company			
40% Chlordane			
Technical chlordane	40.00	38.87	Passed
Carter Insecticide & Chemical Co.			
74% Chlordane			
Technical chlordane	74.00	75.73	Passed
Daly-Herring Company			
74% Chlordane			
Technical chlordane	74.00	73.75	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
F.C.X. 50% Wettable Chlordane Powder			
Technical chlordane	50.00	47.64	Passed
do	50.00	49.86	Passed
do	50.00	49.16	Passed
Hammond Paint & Chemical Co.			
Hammond's 5% Chlordane Dust			
Technical chlordane	5.00	4.56	Not reg. deficient
Maxwell Insecticide Company			
Maxwell Roach and Ant Liquid			
Technical chlordane	2.00	2.88	Passed
Niagara Chemical Division			
Niagara Chlordane Dust or Spray			
Technical chlordane	6.00	6.11	Passed
do	6.00	6.11	Passed
The George H. Nowland Company			
Landford Roach-Ant Killer			
Technical chlordane	2.00	2.25	Passed
Planters Chemical Corp.			
40% Wettable Chlordane			
Technical chlordane	40.00	38.23	Passed
do	40.00	38.09	Passed
do	40.00	36.97	Deficient
Standard Fertilizer Company			
Gro-more 40% Chlordane Powder			
Technical chlordane	40.00	39.15	Passed
do	40.00	38.59	Passed
Swift & Company			
End-O-Pest ARC Liquid			
Technical chlordane	45.00	45.23	Passed
Tobacco By-Products & Chemical Corp.			
5% Chlordane Dust			
Technical chlordane	5.00	4.99	Passed
do	5.00	5.26	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Woolfolk Chemical Works			
5% Chlordane Dust			
Technical chlordane	5.00	5.06	Passed
do	5.00	5.14	Passed
do	5.00	4.92	Passed
Job P. Wyatt & Sons			
40% Wettable Chlordane			
Technical chlordane	40.00	38.10	Passed
do	40.00	38.86	Passed
CHLORDANE — PIPERONYL BUTOXIDE — PYRETHRINS			
Cook Chemical Company			
Real-Kill Bug Killer			
Technical chlordane	2.00	2.12	Passed
Piperonyl butoxide	0.115	0.139	
Pyrethrins	0.046	0.046	
Technical chlordane	2.00	2.05	Passed
Piperonyl butoxide	0.115	0.117	ment wol and
Pyrethrins	0.046	0.039	
The Dill Company			
Duzkill Spray			and principle state
Technical chlordane	2.00	2.05	Passed
Piperonyl butoxide	0.075	0.123	
Pyrethrins	0.015	0.030	
Perfume	0.25	Present	
Technical chlordane	2.00	1.97	Passed
Piperonyl butoxide	0.075	0.065	
Pyrethrins	0.015	0.025	
Perfume	0.25	Present	
Technical chlordane	2.00	2.05	Passed
Piperonyl butoxide	0.075	0.079	
Pyrethrins	0.015	0.06	
Perfume	0.25	Present	
Technical chlordane		2.21	Passed
Piperonyl butoxide	0.075	0.066	
Pyrethrins	0.015	0.014	
Perfume	0.07	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's Household Insect Spray			
Technical chlordane	2.00	2.12	Passed
Piperonyl butoxide	0.25	0.22	
Pyrethrins	0.03	0.038	
Technical chlordane	2.00	2.22	Passed
Piperonyl butoxide	0.25	0.23	
Pyrethrins	0.03	0.05	
Technical chlordane	2.00	1.99	Passed
Piperonyl butoxide	0.25	0.26	
Pyrethrins	0.03	0.043	
Technical chlordane	2.00	1.90	Passed
Piperonyl butoxide	0.25	0.27	
Pyrethrins	0.03	0.047	
The Tennessee Soap Company			
Hot Shot Bug Killer			
Technical chlordane	2.00	2.240	Deficient
Piperonyl butoxide	0.188	0.140	
Pyrethrins	0.075	0.041	
Technical chlordane	2.00	2.170	Deficient
Piperonyl butoxide	0.188	0.280	
Pyrethrins	0.075	0.043	
Technical chlordane	2.00	2.00	Deficient
Piperonyl butoxide	0.188	0.230	
Pyrethrins	0.075	0.041	
Technical chlordane	2.00	2.25	Deficient
Piperonyl butoxide	0.188	0.273	
Pyrethrins	0.075	0.046	
Technical chlordane	2.00	2.100	Deficient
Piperonyl butoxide	0.188	0.285	
Pyrethrins	0.075	0.040	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE — BHC	-	Name Company	nell rastina A a
The Hilo Company			
Hilo Tick Powder			
Technical chlordane	1.00		Passed
Gamma isomer of BHC			
Theoretical chlorine	1.02	1.07	
Hilo Kiltix			the increase
Technical chlordane	8.00		Passed
Gamma isomer of BHC			1 00000
Theoretical chlorine		5.91	
CHLORDANE — BHC — PYRETHRINS			
Esso Standard Oil Company			
Flit Bug Killer			
Technical chlordane	2.00	1.96	Passed
Gamma isomer of BHC	0.05	0.10	
Pyrethrins	0.05	Present	
CHLORDANE — DDT			
Graham Chemical Company			
Red Star Ant Dust			
Technical chlordane	10.00		Passed
DDT	5.00		
Theoretical chlorine	9.04	9.93	
Technical chlordane	10.00		Passed
DDT	5.00		
Theoretical chlorine	9.04	8.87	
Technical chlordane	10.00		Deficient
DDT	5.00		
Theoretical chlorine	9.04	7.60	
Technical chlordane	10.00		Deficient
DDT	5.00		
Theoretical chlorine	9.04	7.66	
Technical chlordane	10.00		Deficient
DDT	5.00		
Theoretical chlorine	9.04	7.73	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Red Star Ant Dust (Continued)			
Technical chlordane	10.00		Deficient
DDT	5.00		
Theoretical chlorine	9.04	7.92	
Technical chlordane	10.00	10.15	Passed
DDT	5.00	5.86	
Technical chlordane	10.00	8.46	Deficient
DDT	5.00	5.12	
Technical chlordane	10.00	7.95	Deficient
DDT	5.00	5.56	
CHLORDANE — DDT — ORGANIC THIOCYANATES			
Rigo Manufacturing Company			
Cill-Ko, The Two Purpose Spray			
Technical chlordane	0.29		Passed
DDT			
Theoretical chlorine		2.65	
Lethane 384 special	2.70	2.98	
CHLORDANE — ORGANIC THIOCYANATES			Legy Wilder
agle Chemical Company			
Spra-Kill Special Spray			
Technical chlordane	2.00	2.44	Passed
Lethane 384 special	1.50	1.79	
Rigo Manufacturing Company			
Kill-Ko K.O.			
Technical chlordane	2.50	2.92	Passed
Lethane 384 special	2.70	2.87	
CHLORDANE — PYRETHRINS			
C-B Drug Company			
C-B Insect Spray			
Technical chlordane	2.00	2.33	Passed
Pyrethrins	0.034	0.059	1 - 1

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
C-B Double Action Insect Spray			
Technical chlordane	2.00	2.20	Not registered
Pyrethrins	0.05	Present	
-			
CHLORDANE — THANITE			
Daly-Herring Company			
Dee Aitch Roach-Ant Spray			
Technical chlordane	2.00	2.30	Passed
Thanite	2.00	1.90	
CHLORDANE — DDT SULFUR — ZERLATE			
Sherwin-Williams Company			
Sherwin-Williams Pestroy Fruit Spray			
Technical chlordane	8.00		Not reg. deficient
DDT	7.50		
Sulfur	37.00	44.08	
Zinc dimethyl dithiocarbamate	10.50	11.22	
Theoretical chlorine	8.98	8.27	
COPPER			
Athens Insecticide Company, Inc.			
Uncle Joe's Wonder Cuprocide			
Copper as metallic	4.00	4.22	Not registered
Central Chemical Corp.			
Bor-dox Copper Fungicide  Copper as metallic	12.75	13.94	Passed
do		13.12	Passed
do		12.52	Passed
do		12.60	Passed
40		12.00	, 55500
Chipman Chemical Company			
Copper Hydro Bordo			
Copper as metallic	13.00	13.04	Passed
do	13.00	13.19	Passed
Farmers Cooperative Exchange, Inc.			
F.C.X. 5% Copper Dust			
Copper as metallic	5.00	4.78	Passed
do		4.99	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
F.C.X. 7% Copper Dust			
Copper as metallic	<b>7.00</b>	9.01	Passed
do	7.00	7.27	Passed
General Chemical Division Allied Chemical & Dye Corp.			
Orchard Brand Bordeaux Mixture			
Copper as metallic	12.75	13.80	Passed
do	12.75	13.97	Passed
do	12.75	13.42	Passed
Miller Chemical and Fertilizer Co.			
Duo Copper Dust			
Copper as metallic		53.24	Passed
do	53.00	53.49	Passed
Pittsburg Plate Glass Co.			
Corona Coppercarb No. 20			
Copper as metallic	20.00	22.06	Passed
igo Manufacturing Company			
Poyal Copper Dust			
Copper as metallic	7.00	6.90	Passed
outhern Agricultural Insecticides, Inc.			
A-50 Tomato Dust			
Copper as metallic	7.00	7.16	Passed
do	7.00	7.43	Passed
do	7.00	7.46	Passed
do	7.00	7.37	Passed
ennessee Copper Company			
owdered Instant Bluestone Copper Sulfate			
Copper as metallic	25.20	25.32	Passed
COPPER — BHC			
outhern Agricultural Insecticides, Inc.			
A-50 Brand Cucumber & Squash Dust			
Copper as metallic	6.50	6.28	Passed
Gamma isomer of BHC	1.00	1.27	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
COPPER - DDD		7	
Graham Chemical Company			
Red Star Tomato Dust			
Copper as metallic	7.00	7.83	Passed
DDD		4.76	1 43304
COPPER — DDT	0.00	MUECH NA	
Central Chemical Corp.			
Di-Cop Dust			
Copper as metallic	7.00	6.84	Passed
DDT	3.00	3.25	
	7.00		5.0.
Copper as metallic		6.61 4.07	Deficient
DD1	3.00	4.07	
Farmers Cooperative Exchange, Inc.			
F.C.X. Potato Dust			
Copper as metallic	7.00	6.99	Passed
DDT	3.00	3.05	
Copper as metallic	7.00	6.48	Deficient
DDT	3.00	2.85	
Farmer Investigate Communication			
Farmers Insecticide Company			Section 10 section
Farmers Brand 5% Copper Dust 3% DDT	F 00	6.09	Passed
Copper as metallic		3.14	Passed
501	3.00	3.14	
W. R. Peele Company, Inc.			
3% DDT — 7% Copper Dust			
Copper as metallic	7.00	7.38	Passed
DDT	3.00	3.11	
Niagara Chemical Division			
Copozim Niatox 3 Dust			
Copper as metallic	6.00	6.30	Passed
DDT	3.00	2.94	
Planters Chemical Corp.			
Planters Dee-Kop Dust			
Copper as metallic	7.00	6.97	Passed
DDT		2.91	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Seacoast Laboratories, Inc.			
Twin Light Nu Cu Dust			
Copper as metallic	7.00	6.72	Passed
DDT	3.00	3.19	
Southern Agricultural Chemicals, Inc.			
Royal Brand Potato Dust			
Copper as metallic	6.50	6.38	Passed
DDT		3.21	
COPPER — ARSENIC			
Hammond Paint & Chemical Company			
Hammond's Tomato Dust			
Copper as metallic	7.00	6.83	Not registered
Calcium arsenate	14.00		
Arsenic as metallic	5.00	5.36	
Arsenic as metallic—water soluble	0.50	0.17	
COPPER — DDT — ARSENIC			
Acme White Lead & Color Works			-
Acme Red River Potato Mix			
Copper as metallic	25.70	26.21	Passed
DDT	9.50	9.30	
Arsenic as metallic	15.10	15.96	
Arsenic-water soluble (not more than)	0.50	0.17	
COPPER — DDT — METHYL NAPHTHALENE			
Miller Chemical & Fertilizer Corp.			
Miller Tomato Dust D-1, C-7			
Copper as metallic	7.00	6.92	Passed
DDT	1.00	1.14	
Methyl naphthalene	2.00	Present	
COPPER — SODIUM FLUOALUMINATE		2.44	
outhern Agricultural Chemicals			
01 Brand Florida Special			
Copper as metallic	5.00	5.02	Passed
Sodium fluoaluminate	20.00	19.06	

101 Brand Florida Special (Continued)   Copper as metallic	Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Sodium fluoaluminate	101 Brand Florida Special (Continued)			
Southern Agricultural Insecticides, Inc.	Copper as metallic	5.00	5.16	Deficient
SA-50 Cucumber and Squash Dust  Copper as metallic	Sodium fluoaluminate	20.00	16.02	
Copper as metallic	Southern Agricultural Insecticides, Inc.			
Sodium fluoaluminate   30.00   28.08	SA-50 Cucumber and Squash Dust		- Edward	
COPPER - SULFUR	Copper as metallic	6.50	7.02	Deficient
Hammond Paint & Chemical Company	Sodium fluoaluminate	30.00	28.08	
Hammond's Grape and Rose Dust   Copper sulfate	COPPER — SULFUR			
Copper sulfate	Hammond Paint & Chemical Company			
Sulfur	Hammond's Grape and Rose Dust			
### COPPER — AMMONIA — NICOTINE  #### Hammond Paint & Chemical Company  #### Hammond's Kix, for Roses    Copper as metallic	Copper sulfate	2.50	2.40	Not registered
Hammond Paint & Chemical Company	Sulfur	64.00	69.44	OWN IN COLUMN
Hammond's Kix, for Roses   Copper as metallic   3.05   3.01   Not registered	COPPER — AMMONIA — NICOTINE			
Copper as metallic	Hammond Paint & Chemical Company			
Ammonia	Hammond's Kix, for Roses			
Nicotine	Copper as metallic	3.05	3.01	Not registered
COPPER — ARSENIC — SULFUR — ZINC  Woolfolk Chemical Works  Pan Apple Spray  Copper as metallic 3.50 3.91 Deficient  Lead arsenate 14.80 13.85  Sulfur 41.00 44.64  Zinc 5.00 5.38  DDD (TDE)  Acme Fertilizer Company  10% TDE Dust  DDD 10.00 10.19 Passed  do 10.00 9.82 Passed  do 10.00 9.97 Passed	Ammonia	8.00	12.32	
Woolfolk Chemical Works         Pan Apple Spray       3.50       3.91       Deficient         Lead arsenate       14.80       13.85         Sulfur       41.00       44.64         Zinc       5.00       5.38         DDD (TDE)         Acme Fertilizer Company         10% TDE Dust       10.00       10.19       Passed         do       10.00       9.82       Passed         do       10.00       9.97       Passed         25% Rhothane Emulsion	Nicotine	5.00	5.57	
Pan Apple Spray  Copper as metallic 3.50 3.91 Deficient  Lead arsenate 14.80 13.85  Sulfur 41.00 44.64  Zinc 5.00 5.38  DDD (TDE)  Acme Fertilizer Company  10% TDE Dust  DDD 10.00 10.19 Passed  do 10.00 9.82 Passed  do 10.00 9.97 Passed	COPPER — ARSENIC — SULFUR — ZINC			
Copper as metallic	Woolfolk Chemical Works			
Lead arsenate 14.80 13.85 Sulfur 41.00 44.64 Zinc 5.00 5.38  DDD (TDE)  Acme Fertilizer Company  10% TDE Dust  DDD 10.00 10.19 Passed do 10.00 9.82 Passed do 10.00 9.97 Passed	Pan Apple Spray			
Sulfur 41.00 44.64 Zinc 5.00 5.38  DDD (TDE)  Acme Fertilizer Company  10% TDE Dust  DDD 10.00 10.19 Passed do 10.00 9.82 Passed do 10.00 9.97 Passed	Copper as metallic	3.50	3.91	Deficient
Zinc	Lead arsenate	14.80	13.85	
DDD (TDE)  Acme Fertilizer Company  10% TDE Dust  DDD	Sulfur	41.00	44.64	
Acme Fertilizer Company  10% TDE Dust  DDD 10.00 10.19 Passed do 10.00 9.82 Passed do 10.00 9.97 Passed  25% Rhothane Emulsion	Zinc	5.00	5.38	
10% TDE Dust  DDD 10.00 10.19 Passed  do 10.00 9.82 Passed  do 10.00 9.97 Passed  25% Rhothane Emulsion	DDD (TDE)			
DDD 10.00 10.19 Passed do 10.00 9.82 Passed do 10.00 9.97 Passed 25% Rhothane Emulsion	Acme Fertilizer Company			
do 10.00 9.82 Passed do 10.00 9.97 Passed 25% Rhothane Emulsion	10% TDE Dust			
do 10.00 9.82 Passed do 10.00 9.97 Passed 25% Rhothane Emulsion	DDD	10.00	10.19	Passed
do 10.00 9.97 Passed 25% Rhothane Emulsion				
			9.97	Passed
	25% Rhothane Emulsion			
	DDD	25.00	25.83	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Apex Chemical Company			
Apex 10% TDE Tobacco Dust			
DDD	10.00	10.15	Passed
The second secon			
do	00.00	10.01	Passed
do		10.46	Passed
do		10.43	Passed
do	10.00	10.19	Passed
alifornia Spray-Chemical Corp.			
Orthene 3D 10 Dust			
DDD	10.00	10.91	Passed
do	10.00	10.59	Passed
do	10.00	10.66	Passed
do	10.00	10.41	Passed
do	10.00	10.30	Passed
do	10.00	10.17	Passed
do	10.00	11.46	Passed
do	10.00	11.06	Passed
do	10.00	10.93	Passed
do	10.00	11.13	Passed
Cape Fear Chemicals, Inc.			
iger Brand 10% TDE Dust			
DDD	10.00	10.00	Passed
do		11.49	Passed
do		10.11	Passed
do		11.06	Passed
do		11.74	Passed
do		11.86	Passed
		11.19	Passed
do		10.77	Passed
do		11.73	Passed
do		11.19	Passed
do		10.05	Passed
do	10.00	10.93	Passed
do	10.00	11.67	Passed
do	10.00	11.93	Passed
do	10.00	11.99	Passed
do	10.00	11.57	Passed
do	10.00	11.21	Passed
do	10.00	11.33	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carolina Chemicals, Inc.			
Flight Brand 10% Rhothane Dust			
DDD	10.00	11.29	Passed
do	10.00	10.11	Passed
do	10.00	10.27	Passed
do	10.00	10.07	Misbranded
Parathion	None	0.46	
Carter Insecticide & Chemical Co.			
Carolina Brand Tobacco Dust 10% TDE			
DDD	10.00	10.39	Passed
do	10.00	10.63	Passed
do	10.00	9.86	Passed
do	10.00	10.00	Passed
do	10.00	10.33	Passed
do	10.00	10.00	Passed
do	10.00	9.86	Passed
Chambers-Godfrey Mfg. Company			
Chambers 10% Rhothane Dust			
DDD	10.00	9.76	Passed
do	10.00	9.92	Passed
do	10.00	9.93	Passed
Daly-Herring Company			
Bacco 10% TDE Dust			
DDD	10.00	10.13	Passed
do	10.00	10.23	Passed
do	10.00	10.25	Passed
do	10.00	10.49	Passed
do	10.00	10.07	Passed
do	10.00	10.26	Passed
do	10.00	10.09	Passed
Farmers Cooperative Exchange, Inc.			
F.C.X. 10% TDE Dust			
DDD	10.00	10.00	Passed
do		10.21	Passed
do		9.97	Passed
do		9.97	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
F.C.X. 10% TDE Dust (Continued)		- 6	Senay Coulins
do	10.00	9.89	Passed
do		10.13	Passed
do		10.13	Passed
do		10.01	Passed
do		10.02	Passed
do		9.76	Passed
do	10.00	10.00	Passed
do	10.00	10.05	Passed
do		9.93	Passed
do		9.73	Passed
do		10.27	Passed
do		9.54	Passed
do		10.53	Passed
do	10.00	10.35	Passed
		10.33	Passed
do		10.27	Passed
do			Passed
		10.40	
do		10.40	Passed
		9.76	Passed
do		9.65	Passed
do		10.00	Passed
do		10.39	Passed
do		10.13	Passed
do		10.00	Passed
do		10.00	Passed
do		9.84	Passed
do	10.00	9.90	Passed
Farmers Insecticide Co., Inc.			
Farmers Brand 10% TDE Dust			
DDD	10.00	10.37	Passed
do	10.00	9.96	Passed
do	10.00	10.15	Passed
do	10.00	10.14	Passed
do	10.00	10.13	Passed
do	10.00	9.85	Passed
do	10.00	9.29	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Geigy Co., Inc.			
Geigy 10% TDE Dust			
DDD	10.00	10.37	Passed
do	10.00	10.45	Passed
do	10.00	11.99	Passed
do	10.00	10.78	Passed
do	10.00	10.26	Passed
do	10.00	9.92	Passed
do	10.00	10.18	Passed
do	10.00	10.33	Passed
do	10.00	10.78	Passed
do	10.00	10.53	Passed
do	10.00	11.13	Passed
do	10.00	10.95	Passed
do	10.00	10.53	Passed
do	10.00	11.75	Passed
do	10.00	10.53	Passed
do	10.00	10.39	Passed
General Chemical Division Allied Chemical & Dye Corp. Orchard Brand 25% TDE			
DDD	25.00	26.74	Passed
Graham Chemical Company			
Graham's Red Star 10% Rhothane Dust			
DDD	10.00	10.50	Passed
do	10.00	10.53	Passed
do	10.00	10.45	Passed
do	10.00	10.39	Passed
do	10.00	9.92	Passed
Johnson Cotton Company, Inc.			
Southern Quality 10% TDE Tobacco Dust			
DDD	10.00	10.02	Passed
Maker stat ocal			
Mathieson Agricultural Chemicals Co.			
Mathieson 10% Rhothane Dust		Tanas -	distance of
DDD	10.00	10.82	Passed
do	10.00	10.31	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson 10% Rhothane Dust (Continued)			
do	10.00	9.97	Passed
do	10.00	9.89	Passed
do		10.14	Passed
do		10.55	Passed
do		9.93	Passed
do		10.43	Passed
do		12.39	Passed
do		10.27	Passed
do		10.39	Passed
do		10.49	Passed
			. 45504
Maxwell Insecticide Company			
Maxwell 10% TDE Dust			
DDD	10.00	10.66	Passed
do		10.35	Passed
do		10.73	Passed
do		10.93	Passed
do	10.00	10.06	Passed
do		10.38	Passed
do		10.65	Passed
do		10.35	Passed
do		10.49	Passed
do		10.06	Passed
do		10.10	Passed
do		10.10	Passed
do	10.00	10.23	Passed
do		10.10	Passed
do			
		9.86	Passed
do		10.00	Passed
	10.00	10.33	Passed
do		10.21	Passed
do		10.54	Passed
do		10.17	Passed
		10.13	Passed
'do		10.33	Passed
-do		10.46	Passed
do		10.25	Passed
do	10.00	10.29	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell 10% TDE Dust (Continued)			
do	10.00	10.71	Passed
do	10.00	10.13	Passed
do	10.00	10.53	Passed
do		10.53	Passed
do	10.00	10.20	Passed
do	10.00	10.14	Passed
do	10.00	10.27	Passed
do	10.00	10.15	Passed
do	10.00	10.13	Passed
do	10.00	10.26	Passed
do	10.00	10.47	Passed
do	10.00	10.20	Passed
do	10.00	10.13	Passed
do	10.00	10.13	Passed
Naco Fertilizer Company			
Naco 10% Rhothane Dust			
		***	-
DDD	10.00	10.03	Passed
do	10.00	9.73	Passed
do		11.25	Passed
do	10.00	9.50	Passed
do	10.00	9.86	Passed
do	10.00	9.56	Passed
do	10.00	9.65	Passed
do	10.00	10.07	Passed
do	10.00	9.87	Passed
do	10.00	9.18	Deficient
Niagara Chemical Division			
Niatox 10 Dust			
DDD	10.00	11.23	Passed
W. R. Peele Co., Inc.			
Pelco 10% TDE Tobacco Dust			
DDD	10.00	10.39	Passed
do	10.00	11.47	Passed
do	10.00	10.14	Passed
do	10.00	10.45	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco 10% TDE Tobacco Dust (Continued)			
do	10.00	9.84	Passed
do	10.00	10.19	Passed
do	10.00	9.85	Passed
do	10.00	10.39	Passed
do	10.00	10.33	Passed
do	10.00	9.71	Passed
do	10.00	9.93	Passed
do	10.00	10.11	Passed
do	10.00	10.13	Passed
do	10.00	10.13	Passed
do		10.66	Passed
do	10.00	10.15	Passed
do	10.00	9.73	Passed -
do	10.00	10.15	Passed
do	10.00	10.33	Passed
do	10.00	10.27	Passed
do	10.00	9.84	Passed
do	10.00	8.67	Deficient
Planters Chemical Corp.			
Planters 10% Rhothane Dust			
DDD	10.00	10.50	Passed
do	10.00	9.90	Passed
do	10.00	9.93	Passed
do	10.00	10.00	Passed
do	10.00	10.46	Passed
do	10.00	10.33	Passed
Quinn Wholesale			
Quinco QWC 25% TDE			
DDD	25.00	26.34	Passed
Rohm & Haas Co.		-	
25% Rhothane Emulsion Concentrate			
DDD	25.00	25.20	Passed
			. 00000
do	25.00	25.94	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
imith Seed & Feed Co., Inc.			
Rhothane Dust 10% TDE			
DDD	10.00	10.10	Passed
do		10.10	Passed
		101-10	, 00000
Southern Agricultural Chemicals Co.			
0% Rhothane Dust			
DDD	10.00	9.86	Passed
Standard Fertilizer Company			
Standard 10% DDD Dust			
DDD	10.00	10.46	Passed
do	10.00	10.27	Passed
do	10.00	9.75	Passed
Taylor Chemical Company			
Superkill 10% TDE Tobacco Dust			
DDD	10.00	10.06	Passed
do	10.00	9.46	Deficient
do	10.00	10.53	Passed
do	10.00	10.00	Passed
do	10.00	9.93	Passed
Tobacco By-Products & Chemical Corp.			
Black Leaf 10% Rhothane Dust			
DDD	10.00	10.57	Passed
do		9.86	Passed
do		11.57	Passed
do		9.86	Passed
do		9.81	Passed
do		10.28	Passed
do		9.72	Passed
do		11.19	Passed
do		9.86	Passed
do		10.11	Passed
do		10.15	Passed
do	10.00	10.82	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Black Leaf Tobacco Formula 10% Rhothane			
DDD	. 10.00	10.15	Passed
do	10.00	10.21	Passed
do	10.00	9.73	Passed
50% TDE Wettable			
DDD	50.00	48.48	Passed
Triangle Chemical Co.			
Triangle 10% TDE Dust			
DDD	10.00	11.59	Passed
Triangle 25% TDE Dust			
DDD	25.00	24.89	Passed
Woolfolk Chemical Works			
Security 10% 3-D's Dust			
DDD	10.00	10.00	Passed
do		9.88	Passed
do	10.00	10.92	Passed
Job P. Wyatt & Sons Co.			
Wyatt's 10% TDE Dust			
DDD	10.00	10.29	Passed
do	10.00	10.37	Passed
2, 4 - D			
E. I. du Pont de Nemours & Co., Inc.			
Lawn Weed Killer			
Dimethylamine 2,4-dichlorophenoxyacetate	e 13.90	16.25	Passed
2,4-Dicholorophenoxyacetic acid equivalent	11.50	13.50	- 100
Sears, Roebuck & Company			
Cross Country Weedeath No. 1073			
Isopropyl and triethylamine salts of 2,4-D	. 18.94		Passed
2,4-Dichlorophenoxyacetic acid equivalent		13.43	1 03300
DDT			
Acme Fertilizer Company			
Acme 10% DDT			
DDT	10.00	9.79	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found . Per Cent	Decisions
Acme White Lead & Color Works			
Acme Dura Dust #50 Wettable DDT			
DDT	50.00	49.64	Passed
do	50.00	49.92	Passed
Allied Drug Products			
Extra Kill DDT 25%			
DDT	25.00	25.68	Passed
Boyle-Midway, Inc.			
Black Flag 25% DDT Emulsion Concentrate		(	
DDT	25.00	23.94	Passed
do	25.00	24.69	Passed
do	25.00	25.12	Passed
do	25.00	25.02	Passed
California Spray-Chemical Corp.			
Persisto 5 Dust			
DDT	5.00	5.25	Passed
do	5.00	5.08	Passed
do	5.00	4.33	Deficient
Orthene 3D 10 Dust			
DDT	10.00	9.58	Passed
Pest B-Gon Wettable DDT 50%			
DDT	50.00	51.05	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 5% DDT Dust			
DDT	5.00	5.03	Passed
do		5.17	Passed &
do		5.18	Passed
do	5.00	4.97	Passed
Tiger Brand 10% DDT Dust		74	
	10.00	10.35	Passed
Carbola Chemical Company			
CCC Powder			
		(	The state of the s
DDT	10.00	9.95	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carter Insecticide & Chemical Co.			
Carolina Brand 25% DDT Emulsion Concentra	te		
DDT		24.60	Passed
Central Chemical Corp.			-
DDT 10 Dust			
DDT	10.00	10.11	Passed
Farmrite Hort Spray 50% DDT			
DDT	50.00	50.56	Passed
c to the state of			
Crafton Chemical Company		•	
"Crafticide" DDT 5%			100 100 100 1
DDT	5.00	24.00	Passed
S. A. Crisp Canine Company			
Crisp's Flea Powder			
DDT	5.00	4.82	Passed
do	5.00	4.88	Passed
Daly-Herring Company			
Dee Aitch 5% DDT Dust			
DDT	5.00	4.96	Passed
do		5.02	Passed
do	5.00	5.08	Passed
do	5.00	4.54	Deficient
Dee Aitch 10% DDT Dust			
DDT	10.00	10.61	Passed
	1 - 1-1		100
E. I. du Pont de Nemours & Company			
Du Pont Deenate 75-W			
DDT	75.00	74.69	Passed
Farmers Cooperative Exchange, Inc.			
F.C.X. 5% DDT Dust			
DDT	5.00	5.43	Passed
do	5.00	5.50	Passed
do	5.00	5.50	Passed
do		5.01	Passed
-do	5.00	5.31	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
F.C.X. 5% DDT Dust (Continued)			*
do		5.33	Passed
do		5.85	Passed
do		5.32	Passed
do		5.61	Passed
do		5.04	Passed
do		5.18	Passed
do		4.75	Passed
do		6.78	Passed
do		5.00	Passed
do	5.00	5.20	Passed
F.C.X. 10% DDT Dust			
DDT	10.00	9.79	Passed_
do	10.00	9.81	Passed
Farmers Cooperative Exchange, Inc.			30
F.C.X. 50% DDT Wettable Powder			
man being his all	in a second		The same of
DDT		51.38	Passed
do		50.77	Passed
do	50.00	48.35	Passed
Farmers Insecticide Company, Inc.			
Farmers Brand 5% DDT Dust			
DDT	5.00	4.79	Passed
Saine Common Inc			
Geigy Company, Inc.			
Geigy 5% DDT Dust			-1 10
DDT		4.86	Passed
do		5.04	Passed
do	5.00	7.13	Passed
Graham Chemical Company			
Red Star 5% DDT Dust			
	5.00	5.21	Passed
Red Star 5% DDT Dust		5.21 6.17	Passed Passed
DDT			
Red Star 5% DDT Dust  DDT			

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Tat Solution Concentrate 35% DDT			
DDT	35.00	36.59	Passed
Mathieson Agricultural Chemical Company			
Mathieson 5% DDT Dust			
DDT	5.00	5.17	Passed
Mathieson 10% DDT Dust			
DDT	10.00	9.93	Passed
Maxwell Insecticide Company			
Maxwell 5% DDT Dust			
DDT	5.00	5.46	Passed
do	5.00	4.93	Passed
do	5.00	4.92	Passed
do	5.00	5.03	Passed
do	5.00	4.86	Passed
do	5.00	5.26	Passed
do	5.00	5.25	Passed
do	5.00	5.29	Passed
do	5.00	5.00	Passed
do	5.00	5.00	Passed
Naco Fertilizer Company			
Naco 5% DDT Dust			
DDT	5.00	4.98	Passed
do	5.00	4.90	Passed
do	5.00	5.03	Passed
do	5.00	4.69	Deficient
Naco 10% DDT Dust			
DDT	10.00	10.01	Passed
do	10.00	9.66	Passed
do	10.00	9.68	Passed!
Niagara Chemical Division			
Niagara DDT 50 Spray			
DDT	50.00	49.70	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco 5% DDT Dust			
DDT	5.00	4.89	Passed
do		4.76	Passed
do		4.78	Passed
do		4.76	Passed
do hamai		4.96	Passed
do		5.05	Passed
Pennsylvania Salt Manufacturing Co.			Till of the same of the
Knox Out Insecticide Powder DDT 10%			
DDT	10.00	11.15	Passed
do		10.35	Passed
			MANUAL SECTION
Pittsburg Agricultural Chemical Company			
Pittsburg 50% DDT Wettable Powder			0.0
DDT	50.00	50.42	Passed
Planters Chemical Corp.			
Planters 5% Truk-Dust			
DDT	5.00	5.53	Passed
based 200 - Old			1 43300
Planters Double Strength Insect Spray			ob
DDT	10.00	9.70	Passed (1)
B. G. Pratt Company			· ·
Pratt's 25% DDT Spray			
DDT	25.00	23.29	Not reg. deficie
Sale Company Inc.			
Seacoast Laboratories, Inc.			
Light Nu Dust No. 5			- Carlotte
DDT	5.00	4.88	Passed
Sears, Roebuck & Company			
Insect Spray 50% DDT			
DDT	50.00	49.06	Passed
do	50.00	49.42	Passed
beared 56.0 00.07			
Solarine Company			
Solarine Insect Spray			NAME OF TAXABLE PARTY.
DDT		5.33	Passed
do		5.51	Passed
do	5.00	4.80	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Chemicals, Inc.			
Royal Brand 5% DDT Dust			
DDT	5.00	5.14	Passed
do	5.00	5.47	Passed
Royal Brand 10% DDT Dust			
DDT	10.00	10.27	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 5% DDT Dust			
DDT	5.00	5.40	Passed
do	5.00	5.52	Passed
SA-50 10% DDT Dust			
DDT	10.00	10.80	Passed
do	10.00	10.44	Passed
do	10.00	9.76	Passed
Standard Fertilizer Company			
Gro-More 5% DDT Dust			
DDT	5.00	5.28	Passed
do	5.00	4.65	Deficient
do	5.00	12.76	Passed
Gro-More 10% DDT Dust			
DDT	10.00	9.70	Passed
Taylor Chemical Company			
Superkill 5% DDT Dust			
DDT	5.00	5.04	Passed
Tobacco By-Products & Chemical Corp.			
Black Leaf 50% DDT Wettable Powder			
DDT	50.00	49.28	Passed
do	50.00	50.49	Passed
United Co-operatives, Inc.			
Unico Fly Killer			
DDT	5.00	4.91	Passed
25% DDT Emulsion Concentrate			
DDT	25.00	25.92	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decision
Woolfolk Chemical Works			
Security 25% DDT Emulsifiable Concentrate			
DDT	25.00	27.66	Passed
50% DDT Wettable			
DDT	50.00	51.76	Passed
do	50.00	51.76	Passed
Job P. Wyatt & Sons Company			
Wyatt's 5% DDT Dust			
DDT	5.00	5.15	Passed
do	5.00	4.69	Deficient
DDT — METHYL NAPHTHALENE			
Miller Chemical and Fertilizer Corp.			
Miller D-5-1 Dust			
DDT	5.00	5.32	Passed
Methyl naphthalene	2.00	Present	
DDT — METHYL NAPHTHALENE — ORGANIC THIOCYANTES			
Boyle-Midway, Inc.			
Black Flag Insect Spray			
DDT	5.00	5.44	Passed
Methyl naphthalene	8.50	Present	
Beta butoxy, beta thiocyanodiethyl ethe	r 1.00	Present	
DDT	5.00	5.36	Passed
Methyl naphthalene	8.50	Present	
Beta butoxy, beta thiocyanodiethyl ethe	r 1.00	Present	
DDT	5.00	5.44	Passed
Methyl naphthalene	8.50	Present	
Beta butoxy, beta thiocyanodiethyl ethe	r 1.00	Present	
Rigo Manufacturing Company			
Kill-Ko Special 25% DDT Concentrate			
DDT	25.00	24.60	Passed
Methyl naphthalene	55.00	Present	
Beta butoxy, beta thiocyanodiethyl ethe	r 1.25	1.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT NICOTINE			
Tobacco By-Products & Chemical Corp.			
Black Leaf Mosquito Fumes			
DDT	14.00	13.82	Passed
Nicotine (expressed as alkaloid)	0.50	0.60	
DDT — ORGANIC THIOCYANATES			
Dairy Specialty Company			
Surekill Insect Spray			
DDT	5.00	4.83	Misbranded Def.
Thanite	3.00	None	
Daly-Herring Company			
Dee Aitch Household Spray			
DDT	5.00	4.75	Passed
Thanite	2.00	2.14	
DDT	5.00	4.75	Deficient
Thanite		1.70	Deficient
THE STATE OF THE S	2.00	1.70	
DDT	5.00	4.93	Passed
Thanite	2.00	2.06	
Esso Standard Oil Company			
Esso Flit with 5% DDT			
DDT	5.00	5.15	Passed
Isobornyl thiocyanoacetate	0.50		
Other related terpenes	0.10		
Aliphatic thiocyanates	0.40		
Theoretical nitrogen	0.038	0.044	
DDT	5.00	5.19	Passed
Isobornyl thiocyanoacetate	0.50		
Other related terpenes	0.10		
Aliphatic thiocyanates	0.40		
Theoretical nitrogen	0.038	0.056	
DDT — ORGANIC THIOCYANATES — METHYL NAPHTHALENES — PYRETHRINS — PIPERONYL BUTOXIDE			
Boyle-Midway Company			
Fly Ded			
DDT	2.00	2.15	Passed
Beta butoxy, beta thiocyanodiethyl ether	1.00	Present	100

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Fly Ded (Continued)			
Methyl naphthalenes	4.50	Present	
Pyrethrins		0.11	
Piperonyl butoxide	0.80	1.10	
DDT — ORGANIC THIOCYANATES — ALLETHRIN — PIPERONYL BUTOXIDE — METHYL NAPHTHALENES — SULFUR			
Tobacco By-Products & Chemical Corp.			
Black Leaf 11-36			
DDT	2.00	2.31	Passed
Beta butoxy, beta thiocyanodiethyl ether	1.00	Present	
Allethrin	0.10	Present	
Piperonyl butoxide	Q.25	0.23	
Methyl naphthalene	4.50	Present	
Bridgeport Brass Company			
Bug Bomb			
DDT	2.00	2.12	Passed
Beta, beta dithiocyanodiethyl ether	1.06	Present	
Allethrin	0.10	Present	
Dr. Salsbury's Laboratories			
Dr. Salsbury's Louse Powder			
DDT		2.00	Passed
Beta, beta dithiocyanodiethyl ether		Present	
Sulfur	30.00	30.82	
DDT	2.00	1.97	Deficient
Beta, beta dithiocyanodiethyl ether	1.35	1.20	
Sulfur	30.00	30.82	,
DDT — PYRETHRINS			
Dr. L. D. LeGear Medicine Company			
Dr. LeGear's Flea & Tick Powder			
DDT	10.00	9.75	Passed
Pyrethrins	0.50	0.44	
DDT — PYRETHRINS — SESEME OIL — METHYL NAPHTHALENES			
Spirittine Chemical Company			
Spirittine Insect Destroyer			
DDT	5.00	3.64	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
spirittine Insect Destroyer (Continued)			
Pyrethrins	0.025	0.15	
Seseme oil extracts		Present	
Methyl naphthalenes	11.30	Present	
DDT — SODIUM FLUORIDE			
r. L. D. LeGear Medicine Company			
Dr. LeGear's Louse Powder			
DDT	5.00	4.64	Passed
Sodium fluoride	10.00	10.74	
DDT — SODIUM FLUORIDE — NICOTINE — SULFUR			
lackman Stock Medicine Company			
Blackman's Lice Powder			
DDT	5.00	5.54	Passed
Sodium fluoride	10.00	10.08	
Nicotine	0.30	0.37	
Sulfur	10.00	10.74	
DDT	<b>5.00</b>	4.61	Deficient
Sodium fluoride	10.00	10.73	
Nicotine	0.30	0.36	
Sulfur	10.00	11.39	
DDT — SODIUM FLUORIDE — SODIUM FLUOSILICATE			
lott Manufacturing Company			
Nott's Roach Powder			
DDT	10.00	10.35	Passed
Sodium fluoride	85.00	85.41	
Sodium fluosilicate	0.50	0.94	
ETHYLENE DICHLORIDE — CARBON TETRACHLORIDE			
United Cooperatives, Inc.			
Inico Grain Fumigant			
Ethylene dichloride	70.00	74.78	Misbranded
Carbon tetrachloride	30.00	25.22	
Ethylene dichloride	70.00	75.12	Misbranded
Carbon tetrachloride	30.00	24.88	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Jnico Grain Fumigant (Continued)			
Ethylene dichloride	70.00	74.54	Misbranded
Carbon tetrachloride	30.00	25.46	
Ethylene dichloride	70.00	75.64	Misbranded
Carbon tetrachloride	30.00	24.36	
Ethylene dichloride	70.00	75.67	Misbranded
Carbon tetrachloride		24.33	
Ethylene dichloride	70.00	76.11	Misbranded
Carbon tetrachloride		23.89	711351411424
Ethylene dichloride	70.00	75.14	Misbranded
Carbon tetrachloride		24.86	Misbranded
FERRIC DIMETHYL DITHIOCARBAMATE			
FERRIC DIMETHYL DITHIOCARBAMATE			
(Ferbam)			
California Spray-Chemical Corp.			
lu Leaf 15 Dust			- 33.2
Ferric dimethyl dithiocarbamate	11.40	9.26	Deficient
Cape Fear Chemicals, Inc.			
iger Brand 15% "Fermate" Dust			
Ferric dimethyl dithiocarbamate	11.40	11.39	Passed
do	11.40	11.47	Passed
do	11.40	11.19	Passed
do	11.40	11.35	Passed
do	11.40	11.27	Passed
do	11.40	10.45	Deficient
Carter Insecticide & Chemical Company, Inc	:.		
Carolina 15% Ferbamate Dust			
Ferric dimethyl dithiocarbamate	11.40	11.19	Passed
do	11.40	11.19	Passed
i. I. du Pont de Nemours & Company			
Du Pont "Fermate"			
Ferric dimethyl dithiocarbamate	76.00	75.59	Passed
do		76.23	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Du Pont "Fermate" (Continued)			
do	76.00	77.00	Passed
do	76.00	76.63	Passed
armers Cooperative Exchange, Inc.			
C.X. Ferbam Dust No. 10			
Ferric dimethyl dithiocarbamate	11.40	11.47	Passed
do	11.40	11.43	Passed
do	11.40	11.68	Passed
do	11.40	11.27	Passed
do	11.40	11.10	Passed
do	11.40	11.39	Passed
do	11.40	12.64	Passed
do	11.40	11.43	Passed
do	11.40	11.80	Passed
do	11.40	11.35	Passed
do		10.74	Deficient
armers Brand 15% "Fermate" Dust  Ferric dimethyl dithiocarbamate  do	11.40	12.20 11.72 10.86	Passed Passed Passed
Seigy Company, Inc.			
Geigy Ferbam Dust (15% "Fermate")			
Ferric dimethyl dithiocarbamate		11.27	Passed
do	11.40	11.19	Passed
do		11.47	Passed
do	11.40	11.39	Passed
Graham Chemical Company			
ed Star 15% "Fermate" Dust			
Ferric dimethyl dithiocarbamate	11.40	11.15	Passed
do	11.40	11.11	Passed
do	11.40	10.48	Deficient
Mathieson Agricultural Chemical Company			
Nathieson Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	10.38	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Insecticide Company			
Maxwell 15% "Fermate" Dust			
Ferric dimethyl dithiocarbamate	11.40	11.43	Passed
do	11.40	11.47	Passed
do	11.40	11.60	Passed
do	11.40	11.56	Passed
W. R. Peele Company, Inc.		named and the	
Pelco 15% "Fermate" Dust			
Ferric dimethyl dithiocarbamate	11.40	11.27	Passed
do	11.40	11.47	Passed
Planters Chemical Corporation			
Planter's Blue Mold Dust			
Ferric dimethyl dithiocarbamate	11.40	11.39	Passed
do		11.27	Passed
		11.27	1 43364
Southern Agricultural Chemicals, Inc.			
Royal Brand 15% "Fermate" Dust	1		
Ferric dimethyl dithiocarbamate		11.60	Passed
do	11.40	11.19	Passed
Taylor Chemical Company			
Taylor Superkill "Fermate" Dust			
Ferric dimethyl dithiocarbamate	11.40	9.96	Deficient
Tobacco By-Products & Chemical Corp.			
Black Leaf 15% "Fermate" Dust			
Ferric dimethyl dithiocarbamate	11.40	11.47	Passed
do	11.40	11.78	Passed
do	11.40	10.74	Deficient
Woolfolk Chemical Works			
Ferbam Dust			
Ferric dimethyl dithiocarbamate	11.40	11.39	Passed
do		11.39	Passed
do		11.52	Passed
	77.50	memidianen	1 43364
Job P. Wyatt & Sons Company			
Wyatt's 15% "Fermate" Dust		11.00	
Ferric dimethyl dithiocarbamate		11.27	Passed
do		11.47	Passed
do		11.07	Passed
do	11.40	11.47	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FERBAM — DDT			
Planters Chemical Corp.			Wheel S and
Planters "Fermate" — DDT Plant Bed Dust			
Ferric dimethyl dithiocarbamate	11.40	11.39	Passed
DDT	3.00	2.98	
FERBAM — DDT — SULFUR			
Farmers Cooperative Exchange, Inc.			
F.C.X. Rose Dust			
Ferric dimethyl dithiocarbamate	7.60	7.36	Passed
DDT		4.86	
Sulfur	75.00	72.62	and pull about your
Ferric dimethyl dithiocarbamate	7,60	7.30	Passed
DDT		5.07	
Sulfur		75.75	
Ferric dimethyl dithiocarbamate	7.60	7.46	Passed
DDT	5.00	5.18	
Sulfur	75.00	77.30	
Ferric dimethyl dithiocarbamate	7.60	6.85	Deficient
DDT	5.00	4.60	
Sulfur	75.00	74.75	
Ferric dimethyl dithiocarbamate	7.60	6.88	Deficient
DDT	5.00	5.11	
Sulfur	75.00	73.88	
Maxwell Insecticide Company			
Naxwell Rose Dust ("Fermate" 10%)			
Ferric dimethyl dithiocarbamate	7.60	7.87	Passed
DDT	5.00	4.90	
Sulfur	70.00	68.32	
FLUORINE COMPOUNDS SODIUM FLUOALUMINATE			
Acme Fertilizer Company			
Acme 77% Cryolite			
Sodium fluoaluminate	70.00	69.07	Passed
do	70.00	70.81	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Aluminum Company of America			
Alcoa Cryolite		,	C Land S and
Sodium fluoaluminate	90.00	91.04	Passed
Aluminum Ore Company			
Alcoa Cryolite — Insecticide			
Sodium fluoaluminate	90.00	91.47	Passed
Maxwell Insecticide Company			
70-30 Cryolite Dust			
Sodium fluoaluminate	63.00	64.71	Passed
Pennsylvania Salt Manufacturing Company			
Kryocide			
Sodium fluoaluminate	90.00	89.26	Passed
do	90.00	90.63	Passed
SODIUM FLUORIDE			
C. U. McClellan's Laboratories Corp.			
McClellan's Sodium Fluoride			
Sodium fluoride	95.00	97.77	Passed
do		95.78	Passed
Ralston Purina Company			
Purina Lice Powder			
Sodium fluoride	35.00	38.82	Passed
SODIUM FLUOSILICATE			
Shepard Chemical Works			
Shepard Roach Killer			
Sodium fluosilicate	60.00	70.78	Passed
do	60.00	71.78	Passed
HEPTACHLOR — DDT			
Maxwell Insecticide Company			
Heptachlor Cotton Dust 21/2-5-0			
Heptachlor	2.50		Passed
DDT			all the said
Theoretical chlorine	4.80	4.69	

anufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ylor Chemical Company			bell manual a
perkill 2½% Heptachlor Cotton Dust			
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine		4.62	
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.80	5.03	
Heptachlor			Passed
DDT	5.00		
Theoretical chlorine		4.63	
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.80	4.69	
Heptachlor	2.50		Passed
DDT	5.00		
Theoretical chlorine	4.80	4.70	
perkill 21/2% Heptachlor Cotton Dust			
Heptachlor	2.50		Passed
DDT			
Theoretical chlorine	7.30	7.26	
Heptachlor	2.50		Passed
DDT	10.00		
Theoretical chlorine	7.30	6.96	
Heptachlor	2.50		Passed
DDT	10.00		
Theoretical chlorine	7.30	7.45	
Heptachlor	2.50		Passed
DDT	10.00		
Theoretical chlorine	7.30	8.27	
MERCURY			
I. du Pont de Nemours & Company			
Pont "Ceresan" M	- 400	MITTER - DE	10 Indiana
Ethyl mercury p-toluene sulfonanilide		7.79	Passed
do	7.70	7.58	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Du Pont Semesan Bel			complete tempo
Hydroxymercurinitrophenol	12.00		Deficient
Hydroxymercurichlorophenol			
Mercury as metallic		8.24	
METHOXYCHLOR			
E. I. du Pont de Nemours & Company			
Du Pont 50% Technical Methoxychlor Insectici	de		
Methoxychlor	50.00	48.93	Passed
Du Pont Dairy Cattle Spray			
Methoxychlor	50.00	48.99	Passed
Farmers Cooperative Exchange, Inc.			
F.C.X. 5% Methoxychlor			
Methoxychlor	5.00	6.37	Passed
W. R. Peele & Company			
5% Methoxychlor Dust			
Methoxychlor	5.00	5.39	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 10% Marlate Dust			
Methoxychlor	5.00	4.77	Passed
Job P. Wyatt & Sons, Inc.			
Wyatt's 10% "Marlate" Dust			
Methoxychlor	5.00	4.94	Passed
do	5.00	4.93	Passed
do	5.00	5.12	Passed
METHOXYCHLOR — BHC — SULFUR			
Ralston Purina Company			
Purina Insect Killer			
Methoxychlor	2.50		Passed
Gamma isomer of BHC (from Lindane)	0.50		
Theoretical chlorine	1.14	1.18	
Sulfur	10.00	11.85	
Methoxychlor	2.50		Passed
Gamma isomer of BHC (from Lindane)			
Theoretical chlorine	1.14	1.18	
Sulfur	10.00	10.05	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Purina Insect Killer (Continued)			
Methoxychlor	2.50		Passed
Gamma isomer of BHC (from Lindane)	0.50		
Theoretical chlorine	1.14	1.40	
Sulfur	10.00	10.51	
Methoxychlor	2.50		Deficient
Gamma isomer of BHC (from Lindane)	0.50		
Theoretical chlorine	1.14	1.06	
Sulfur	10.00	9.92	
METHOXYCHLOR — FERBAM — SULFUR			
E. I. du Pont de Nemours & Company			
Du Pont Fruit Tree Spray			
Methoxychlor	12.50	12.89	Passed
Ferric dimethyl dithiocarbamate	15.20	15.28	
Sulfur	24.20	25.69	
METHOXYCHLOR — FERBAM — SULFUR — ROTENONE			
E. I. du Pont de Nemours & Company			
Du Pont Floral Dust			
Methoxychlor	5.00	5.38	Passed
Ferric dimethyl dithiocarbamate	7.60	8.66	
Sulfur	26.20	27.84	
Rotenone	0.75	Present	
NAPHTHALENE			
Frank J. Curran Company			
Moth Ball Flakes			
Naphthalene	100.00	100.00	Passed
Coppers & Company			
White Tar Moth Flakes			
Naphthalene	100.00	99.56	Passed
do	100.00	100.00	Passed
NICOTINE			
Tobacco By-Products & Chemical Corp.			

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Black Leaf 40			
Nicotine alkaloid	40.00	40.85	Passed
NICOTINE — OLEATE			
Andrew Wilson, Inc.			
Wilson's OK Plant Spray			
Nicotine	1.60	1.87	Passed
Potassium oleate	7.00	7.06	
Emulsified oils of citronella & turpentine	2.00	Present	
ORGANIC THIOCYANATES			
The Dill Company			
Dill's All-Over Flea Powder			
Beta thiocyano ethyl esters of aliphatic fatty acids containing 10 to 18 carbon atoms	2.00	2.29	Passed
TARREST THE THE PARTY OF THE PA			
PARTHION			
California Spray-Chemical Corp.			
Vapophos 1.5 Dust			
Parathion	1.50	1.33	Deficient
do	1.50	1.25	Deficient
Cape Fear Chemical Company			
Tiger Brand 1% Parathion			
Parathion	1.00	0.99	Passed
do	1.00	1.12	Passed
The Dow Chemical Company			
Dow Parathion 15% Wettable			
Parathion	15.00	14.53	Passed
do		14.70	Passed
Formers Cooperative Evebones Inc			
Farmers Cooperative Exchange, Inc.			
F.C.X. 1% Parathion Dust	1.00	. 0.04	Deficient
Parathion	1.00	0.84	Deficient
Geigy Company, Inc.		June 11	
Geigy 1% Parathion Dust			
Parathion	1.00	0.95	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Insecticide Company	10 0 10 mm		
1% Parathion Dust			
Parathion	1.00	1.00	Passed
raramon	1.00	1.00	rasseu
Niagara Chemical Division			
Niagara Phoskil Spray			
Parathion	15.00	14.57	Passed
Planters Chemical Corp.			
Planters 11/2% Parthion Dust			
Parathion	1.50	1.30	Deficient
		name and	3 Harman and and
Standard Fertilizer Company			
Gro-More 1% Parathion Dust			
Parathion	1.00	0.96	Passed
Taylor Chemical Company			
Superkill 1% Parathion Dust			
Parathion	1.00	0.95	Passed
do	1.00	0.56	Deficient
PARATHION — DDD			
California Spray-Chemical Corp.			
Vapophos — 3D — 1 — 10 Dust			
Parathion	1.00	0.90	Deficient
DDD	10.00	9.82	
Parathion	1.00	0.79	Deficient
DDD		10.33	
Danahi an	1.00		D. C.: .
Parathion		0.74 10.53	Deficient
	10.00	10.33	
Parathion		0.82	Deficient
DDD	10.00	10.46	
Cape Fear Chemicals, Inc.			
Figer Brand Triple Quick Tobacco Dust TDE			
Parathion	1.00	0.93	Passed
DDD	5.00	5.78	
Parathion	1.00	0.95	Passed
		0.70	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Tiger Brand Triple Quick Tobacco Dust TDE 10%			
Parathion	1.00	0.90	Passed
DDD	10.00	11.67	
Parathion	1.00	1.02	Passed
DDD		11.59	1 assect
Carolina Chemicals, Inc.			
Flight 1% Parathion 10% DDD Dust			
Parathion	1.00	0.96	Passed
DDD		10.00	1 00000
Telegraphic Control of the State of the Stat			
Farmers Insecticide Company			
Farmers Double Quick Tobacco Dust			
Parathion		1.01	Passed
DDD	5.00	4.95	
Geigy Company, Inc.			
Geigy 10% TDE (DDD) — 1% Parathion			
Parathion	1.00	1.02	Passed
DDD	10.00	10.15	
Mathieson Agricultural Chemicals Company			
Mathieson Tobacco Dust 5% DDD 1% Parathion	1		
Parathion	1.00	0.35	Deficient
DDD	5.00	7.82	
Southern Agricultural Chemical Company			
10% Rhothane Dust with 1% Parathion			
Parathion	1.00	1.00	Passed
DDD	10.00	9.93	
Standard Fertilizer Company			
	110		
Tobacco Dust 5% DDD 1% Parathion			
Parathion		1.06 6.44	Passed
DDD	5.00	0.44	
Taylor Chemical Company			
Superkill Tobacco Dust No. 1			
Parathion	1.00	1.07	Deficient
DDD	10.00	4.50	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Superkill Tobacco Dust No. 1 (Continued)			
Parathion	1.00	0.72	Deficient
DDD	10.00	9.82	
PARATHION — SULFUR			
Niagara Chemical Division			
Kolo "Phos-Kil" Peach Spray			
Parathion	2.25	2.22	Passed
DDD	53.00	56.02	
Kolo "Phos-Kil" Dust 15			
Parathion	1.50	1.22	Deficient
Sulfur	69.25	68.78	
Southern Agricultural Insecticides, Inc.			
SA-50 11/2% Parathion Dust			
Parathion	1.50	1.53	Passed
Sulfur	25.00	25.17	
Taylor Chemical Company			
Super Kill Peach Dust No. 1			
Parathion	1.50	1.48	Passed
Sulfur	80.00	85.36	
Parathion	1.50	1.58	Passed
Sulfur	80.00	84.44	
Super Kill Peach Spray No. 2			
Parathion	3.70	3.60	Passed
Sulfur	75.00	74.96	
PARATHION — DDT			
Southern Agricultural Insecticides, Inc.			
Pre-Heading Cabbage Dust			
Parathion	1.00	0.96	Passed
DDT	5.00	5.17	
Parathion	1.00	0.94	Deficient
DDT	5.00	4.55	

Decisions

# PARATHION - DDT - SULFUR

# Niagara Chemical Division

Kolo Niatox 5 Phos-Kil 1.5 Dust

Parathion	1.50	1.50	Passed
DDT	5.00	5.06	
Sulfur	30.00	31.76	

### Kolozim 5-15 Dust

Parathion	1.50	1.24	Deficient
DDT	5.00	9.57	
Sulfur	60.00	58.96	

### Southern Agricultural Insecticides, Inc.

SA-50 11/2% Parathion Dust with 5% DDT

Parathion	1.50	1.45	Passed
DDT	5.00	5.23	
Sulfur	25.00	25.51	
Parathion	1.50	1.38	Deficient
DDT	5.00	5.58	
Sulfur	25.00	25.14	
THE SHARE SHEET TO TAKE THE			noil
Parathion	1.50	1.54	Passed
DDT	5.00	5.28	
Sulfur	25.00	29.00	

#### PARATHION - FERBAM

### Farmers Cooperative Exchange, Inc.

F.C.X. 11.4 Ferbam & 1% Parathion Dust

Parathion	1.00	0.99	Passed
Ferrie Dimethyl Dithiocarbamate	11.40	11.68	

#### PARATHION - TOXAPHENE

### Southern Agricultural Insecticides, Inc.

SA-50 Pre-Heading Cabbage Dust with Toxaphene

Parathion	1.00	1.04	Deficient
Toxaphene	10.00	9.37	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PARATHION ZINEB		A COMMITTEE OF THE PARTY OF THE	
Southern Agricultural Insecticides, Inc.			
Zeb. No. 4 1% with Parathion			
Parathion	1.00	0.97	Passed
Zineb		3.98	
PARIS GREEN			nine and the second
Chipman Chemical Company			
Chipman Paris Green			
Copper acetoarsenite	91.70		Passed
Arsenic, as metallic	40.65	41.56	
Arsenic-water soluble (not more than)	2.70	1.28	
Copper, as metallic	23.00	24.90	
Geigy Company, Inc.			
Geigy Paris Green			
	01.70		
Copper acetoarsenite		41.42	Passed
Arsenic—water soluble (not more than)		2.08	
Copper, as metallic		25.32	
		111 - 111 - 111 - 111 - 111	
General Chemical Division Allied Chemical & Dye Corporation			
Orchard Brand Paris Green			
Copper acetoarsenite	90.00		Passed
Arsenic, as metallic		43.03	
Arsenic-water soluble (not more than)	2.65	1.17	
Copper, as metallic	22.50	24.28	
Copper acetoarsenite	91.70		Passed
Arsenic, as metallic		43.67	rassed
Arsenic—water soluble (not more than)		1.33	
Copper, as metallic		23.86	
The second secon			
Mechling Brothers, Chemicals		man (313)	
Mechling's Paris Green			
Copper acetoarsenite	90.00		Passed
Arsenic, as metallic		41.75	
Arsenic—water soluble (not more than)		1.13	
Copper, as metallic	22.50	23.89	

Guaranteed Found
Manufacturers and Brands Per Cent Per Cent Decisions

### **PHENOLS**

### PHENOL - BENZENE HEXACHLORIDE

# Carbola Chemical Company, Inc.

"Carbola" for Dry Uses

arbola for bry uses			
Phenols	1.60	1.30	Deficient
Gamma isomer of BHC (from Lindane)	0.22	0.36	
Coal tar neutral oils	1.40	1.92	
		1.00	nan Chemiles Co
Phenols		1.33	Deficient
Gamma isomer of BHC (from Lindane)		0.44	
Coal tar neutral oils	1.40	1.44	
Phenols	1.60	1.49	Deficient
Gamma isomer of BHC (from Lindane)	0.22	0.34	
Coal tar neutral oils	1.40	1.78	
			-
Phenols		0.71	Deficient
Gamma isomer of BHC (from Lindane)		0.48	
Coal tar neutral oils	1.40	1.80	
Phenols	1.60	0.92	Deficient
Gamma isomer of BHC (from Lindane)	0.22	0.32	
Coal tar neutral oils	1.40	1.51	
Phenols	1.60	0.73	Deficient
Gamma isomer of BHC (from Lindane)		0.75	Dencient
Coal tar neutral oils		1.88	
Coal far neotral ons	1.40	1.00	
Phenols	1.60	0.92	Deficient
Gamma isomer of BHC (from Lindane)	0.22	0.49	
Coal tar neutral oils	1.40	1.55	
Phenois	1.60	0.69	Deficient
Gamma isomer of BHC (from Lindane)		0.27	
Coal tar neutral oils	1.40	1.06	
Phenols		0.77	Deficient
Gamma isomer of BHC (from Lindane)		0.27	
Coal tar neutral oils	1.40	1.25	
Phenols	1.60	1.37	Deficient
Gamma isomer of BHC (from Lindane)	0.22	0.26	· yeller Printers
Coal tar neutral oils	1.40	1.44	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carbola — The Disinfecting White Paint			
Phenols	1.60	0.51	Deficient
Gamma isomer of BHC (from Lindane)	0.335	0.45	
Coal tar neutral oils	1.40	1.29	
Phenois	1.60	1.22	Deficient
Gamma isomer of BHC (from Lindane)	0.335	0.68	
Coal tar neutral oils	1.40	1.84	
Phenols	1.60	1.33	Deficient
Gamma isomer of BHC (from Lindane)	0.335	0.79	
Coal tar neutral oils	1.40	2.01	
Phenols	1.60	0.71	Deficient
Gamma isomer of BHC (from Lindane)	0.335	0.56	
Coal tar neutral oils	1.40	1.92	
Phenols	1.60	1.33	Deficient
Gamma isomer of BHC (from Lindane)	0.335	0.65	
Coal tar neutral oils	1.40	1.36	
PHENOL — DDT			
Carbola Chemical Company, Inc.			
Carbola Contains 3% DDT			
Phenols	1.50	1.93	Passed
DDT	3.00	3.00	
PHOSPHORUS			
California Spray-Chemical Corporation			
Vapotone 66 Dust			
Tetraethyl pyrophosphate	1.00		Passed
Other ethyl phosphates	1.50		
Phosphorus, as elemental	0.60	1.05	
Tetraethyl pyrophosphate	1.00		Passed
Other ethyl phosphates	1.50		
Phosphorus, as elemental	0.60	1.37	
POTASSIUM CYANATE			
American Chemical & Paint Company			
Weedone Crab Grass Killer			
Potassium cyanate	46.00	47.27	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PYRETHRINS — PIPERONYL BUTOXIDE — METH	OXYCHLOR		
Gulf Oil Corporation			
Quick Action Gulfspray			
Pyrethrins	0.12	0.12	Passed
Piperonyl butoxide		0.117	
		0.42	
Pyrethrins	0.12	0.09	Passed
Piperonyl butoxide	0.06	0.074	
Methoxychlor	0.50	0.57	
Gulfspray Aerosol Bomb			
Pyrethrins	0.25	0.19	Passed
Piperonyl butoxide	1.00	1.11	
Methoxychlor	2.00	2.07	
PYRETHRINS PIPERONYL CYCLONENE CO	PPER		
Planters Chemical Corporation			
Planters Cuke & Melon Dust			
Pyrethrins	0.04	0.042	Passed
Piperonyl cyclonene	0.50	Present	
Copper, as metallic (from copper sulfate)	5.00	5.07	
Pyrethrins	0.04	0.036	Passed
Piperonyl cyclonene	0.50	Present	
Copper, as metallic (from copper sulfate)	5.00	5.06	
PYRETHRINS — PIPERONYL CYCLONENE — BO	RIC ACID		
McCormick & Company, Inc.			
Bee Brand Roach Killer			
Pyrethrins	0.33	0.41	Passed
Piperonyl cyclonene	2.00	Present	
Boric acid	15.00	15.98	
Pyrethrins	0.33	0.40	Deficient
Piperonyl cyclonene	2.00	Present	
Boric acid	15.00	12.98	
PYRETHRINS - NICOTINE - NAPHTHALENE -	SULFUR		
Pratt Food Company			
Pratt's Lice Killer			
Pyrethrins	0.001	Present	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pratt's Lice Killer (Continued)			
Nicotine	0.95	0.89	
Naphthalene	0.40	Present	
Sulfur	10.00	10.38	
PYRETHRINS — PINE OIL			
McLaughlin Gormley King Company			
Ever Green Garden Spray			
Pyrethrins	1.40	1.33	Passed
Pine oil	45.00	Present	
ROTENONE			
Cape Fear Chemicals, Inc.			
Tiger Brand 1% Rotenone Dust			
Rotenone	1.00	0.76	Deficient
do	1.00	1.10	Passed
do	1.00	1.16	Passed
do		0.99	Passed
Carbola Chemical Company			
CCC Garden Rote			
Rotenone	0.75	0.27	Deficient
do	0.75	0.33	Deficient
do	0.75	0.35	Deficient
Carter Insecticide Company			
Carter's 1% Rotenone	A DIRECT PROPERTY		
Rotenone	1.00	0.90	Passed
Central Chemical Corporation			
Ro-Dust .75% Rotenone Garden Dust			
Rotenone	0.75	0.59	Passed
do	0.75	0.69	Passed
do	0.75	0.54	Passed
Ro-Dust 100 Rotenone Garden Dust			
Rotenone	1.00	0.95	Passed
Daly-Herring Company			
Dee Aitch 1% Rotenone Dust			
Rotenone	1.00	0.92	Passed
do		1.04	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Dee Aitch 1% Rotenone Dust (Continued)			
do	1.00	0.90	Passed
do	1.00	0.93	Passed
Farmers Cooperative Exchange, Inc.			
F.C.X. Rotox No. 75			
Rotenone	0.75	0.71	Passed
do	0.75	0.62	Passed
C.C.X. Rotox No. 100			
Rotenone	1.00	1.26	Passed
do	1.00	0.71	Deficient
do	1.00	0.89	Passed
do	1.00	0.86	Passed
do	1.00	1.15	Passed
Hammond Paint & Chemical Company			
lammond's Rotenone Bearing Dust, 75			
Rotenone	. 0.75	0.70	Not Registered
De Hans & Clark Inc.			Nation leading
Or. Hess & Clark, Inc.  Or. Hess Powdered Louse Killer			
Rotenone	0.50	0.50	Passed
do		0.30	Passed
	0.30	0.40	rasseu
Dr. Hess Cattle Grub Killer			
Rotenone	1.50	1.55	Passed
The Hilo Company			
Hi-Lo Flea Powder			
Rotenone	1.20	1.16	Passed
Miller Chemical & Fertilizer Corporation			
Willer V-75 Rotenone			
Rotenone	0.75	0.65	Passed
Debut & Committee			
Sears, Roebuck & Company			
Cross Country Insect Dust Containing Rotenone Rotenone	0.75	0.62	Passed
Kolenoile	0./5	0.62	rassed
Southern Agricultural Insecticides, Inc.			
Cattle Grub & Lice Dust			
Rotenone	1.50	1.47	Misbranded
do	1.50	1.51	Passed

Standard Fertilizer Company	oles v
Rotenone	oles v
Tobacco By-Products & Chemical Corporation	oles v
Rotenone	
Rotenone	
1.00   0.97   Passed	
ROTENONE — SULFUR	
ROTENONE — SULFUR   Apex Chemical Company	
Apex Chemical Company         1% Rotenone Dust         Rotenone       1.00       0.82       Passed         Sulfur       15.00       18.73            Black Panther Company, Inc.         Super Black Panther Dust or Spray         Rotenone       1.00       0.90       Passed         Sulfur       10.00       11.59    Cape Fear Chemicals, Inc. Tiger Brand Rotenone Dust 1% with Sulfur Rotenone       1.00       1.30       Passed Sulfur       20.00       20.11	
1% Rotenone Dust       1.00       0.82       Passed         Sulfur       15.00       18.73         Black Panther Company, Inc.       Super Black Panther Dust or Spray         Rotenone       1.00       0.90       Passed         Sulfur       10.00       11.59         Cape Fear Chemicals, Inc.         Tiger Brand Rotenone Dust 1% with Sulfur         Rotenone       1.00       1.30       Passed         Sulfur       20.00       20.11	
Rotenone	
Sulfur       15.00       18.73         Black Panther Company, Inc.       Super Black Panther Dust or Spray         Rotenone       1.00       0.90       Passed         Sulfur       10.00       11.59         Cape Fear Chemicals, Inc.       Tiger Brand Rotenone Dust 1% with Sulfur         Rotenone       1.00       1.30       Passed         Sulfur       20.00       20.11	
Black Panther Company, Inc.  Super Black Panther Dust or Spray  Rotenone 1.00 0.90 Passed Sulfur 10.00 11.59  Cape Fear Chemicals, Inc.  Tiger Brand Rotenone Dust 1% with Sulfur Rotenone 1.00 1.30 Passed Sulfur 20.00 20.11	100
Super Black Panther Dust or Spray       1.00       0.90       Passed         Sulfur       10.00       11.59         Cape Fear Chemicals, Inc.         Tiger Brand Rotenone Dust 1% with Sulfur         Rotenone       1.00       1.30       Passed         Sulfur       20.00       20.11	
Rotenone	
Sulfur       10.00       11.59         Cape Fear Chemicals, Inc.       10.00       11.59         Tiger Brand Rotenone Dust 1% with Sulfur       1.00       1.30       Passed         Sulfur       20.00       20.11	
Cape Fear Chemicals, Inc.  Tiger Brand Rotenone Dust 1% with Sulfur  Rotenone	
Tiger Brand Rotenone Dust 1% with Sulfur           Rotenone         1.00         1.30         Passed           Sulfur         20.00         20.11	
Rotenone       1.00       1.30       Passed         Sulfur       20.00       20.11	
Sulfur 20.00 20.11	
D	
Rotenone 1.00 0.85 Passed	100
Sulfur 20.00 21.19	
Farmers Cooperative Exchange, Inc.	
F.C.X. Cattle Grub Powder	
Rotenone	1
Sulfur 45.00 44.00	
Rotenone 1.60 1.42 Passec	1
Sulfur 45.00 44.52	
Rotenone	4
Sulfur 45.00 44.40	-
Farmers Insecticide Company, Inc. Farmers Brand 1% Rotenone Dust with 10% Sulfur	
Rotenone	1
Sulfur 10.00 10.50	-

Mar	nufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
J. N	1. Harris & Company			
Blue	e Dragon Dust			
	Rotenone	0.75	0.74	Passed
	Sulfur	10.00	10.29	
	Rotenone	0.75	0.74	Passed
	Sulfur	10.00	10.55	
	.Rotenone	0.75	0.75	Passed
	.Sulfur	10.00	9.87	
	Rotenone	0.75	0.66	Passed
	Sulfur		10.69	
	Rotenone	0.75	0.58	Passed
	-Sulfur		9.80	
	.Rotenone	0.75	0.82	Passed
	-Sulfur		10.00	1 05500
	Determine	0.75	0.74	D
	Rotenone		0.76 10.17	Passed
	Rotenone		0.73	Passed
	-Sulfur	10.00	10.00	
	Rotenone	0.75	0.61	Passed
(	Sulfur	10.00	10.26	
	Rotenone	0.75	0.52	Passed
	-Sulfur	10.00	10.10	
	Rotenone	0.75	0.66	Passed
	Sulfur	10.00	10.34	
	Rotenone	0.75	0.80	Passed
	Sulfur	10.00	9.53	
	Rotenone	0.75	0.73	Passed
	Sulfur		10.41	
	Rotenone	0.75	0.66	Passed
	Sulfur		9.74	
	Rotenone	0.75	0.60	Passed
	Sulfur		10.00	Waltotos
	. )			

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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Blue Dragon Dust (Continued)			Appello II charge
Rotenone	0.75	0.63	Passed
Sulfur	10.00	10.01	
Rotenone	0.75	0.65	Passed
Sulfur		10.11	
Rotenone		0.69	Passed
Sulfur		10.18	rasseu
			-
Rotenone		0.81	Passed
Sulfur	10.00	10.42	
Rotenone	0.75	0.67	Passed
Sulfur	10.00	9.95	
Rotenone	0.75	0.68	Passed
Sulfur	10.00	10.15	
Rotenone	0.75	0.59	Passed
Sulfur	10.00	9.62	
Rotenone	0.75	0.64	Passed
Sulfur		9.90	1 00300
	,		Deficient
Rotenone		0.71 8.90	Deticient
	10.00	0.90	
am Houston Company			
louston's Rotenone Sulfur-Talc	11		The second second
Rotenone		0.74	Passed
Sulfur	10.00	10.10	
Rotenone	0.75	0.61	Passed
Sulfur	10.00	10.12	
Rotenone	0.75	0.67	Passed
Sulfur	10.00	10.23	
louston's Rotenone 75-S			
Rotenone	0.75	0.62	Passed
Sulfur	81.25	87.20	
louston's Rotenone 1.00			
Rotenone	1.00	0.89	Passed
Sulfur		83.40	
Rotenone	1.00	0.96	Passed
NOIGHOUS	1.00	0.70	1 2000 0

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Insecticide Company			
Maxwell 1% Rotenone Dust			
Rotenone	1.00	0.95	Passed
Sulfur	15.00	15.25	
Rotenone	1.00	1.01	Passed
Sulfur	15.00	17.44	
Rotenone	1.00	1.20	Passed
Sulfur	15.00	16.68	
Rotenone	1.00	0.97	Passed
Sulfur	15.00	15.04	
Maxwell Cattle Grub & Louse Powder			
Rotenone	1.25	1.18	Deficient
Sulfur	74.00	69.88	
Rotenone	1.25	1.74	Deficient
Sulfur	74.00	68.32	
Rotenone	1.25	1.73	Deficient
Sulfur	74.00	67.46	
Maxwell Cattle Grub & Louse Powder			
Rotenone	1.50	1.75	Deficient
Sulfur	74.00	69.60	
Rotenone	1.50	1.79	Deficient
Sulfur	74.00	67.50	
Rotenone	1.50	1.69	Deficient
Sulfur	74.00	70.10	
Rotenone	1.50	1.79	Deficient
Sulfur	74.00	68.85	
Naco Fertilizer Company			
1% Rotosul Dust			
Rotenone	1.00	0.86	Passed
Sulfur	10.00	18.80	
W. R. Peele Company, Inc.			
Pelco 1% Rotenone Dust			
Rotenone	1.00	1.08	Passed
Sulfur	15.00	14.57	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corporation			
Planter's Mexican Bean Beetle Dust & C	Garden Spray		
Rotenone	0.75	0.75	Passed
Sulfur		24.10	
Rotenone	0.75	0.68	Passed
Sulfur	25.00	23.83	
Seacoast Laboratories, Inc.			
Twin Light Dustall 34%			
Rotenone	0.75	0.81	Passed
Sulfur	3.00	3.63	
Rotenone	0.75	0.77	Deficient
Sulfur	3.00	2.70	
Twin Light Dustall 1%			
Rotenone	1.00	0.75	Deficient
Sulfur	3.00	5.28	
Rotenone	1.00	1.00	Deficient
Sulfur	3.00	2.25	
Rotenone	1.00	0.91	Passed
Sulfur	3.00	2.95	
Rotenone	1.00	0.95	Passed
Sulfur	3.00	3.39	
Rotenone	1.00	1.16	Deficient
Sulfur	3.00	2.53	
Rotenone	1.00	0.89	Passed
Sulfur	3.00	3.58	
Rotenone	1.00	0.97	Passed
Sulfur	3.00	3.09	
Rotenone	1.00	0.95	Passed
Sulfur	3.00	3.05	
Rotenone	1.00	0.85	Passed
Sulfur	3.00	3.16	
Rotenone	1.00	0.97	Passed
Sulfur	3.00	2.85	

Manufacturers and Brands		Guaranteed Per Cent	Found Per Cent	Decisions
Woolfolk Chemical Works				
Mexide Dust				
Rotenone		0.75	0.64	Passed
			28.24	
Rotenone		0.75	0.63	Passed
Sulfur			27.85	7 d33CU
			1	
ob P. Wyatt & Sons Company				
Vyatt's 1% Rotenone Dust				
Rotenone		1.00	0.95	Passed
Sulfur		15.00	15.76	
ROTENONE — DDT				
entral Chemical Corporation				
o-Dust with 3% DDT — .75% Roter	none			
Rotenone		0.75	0.99	Passed
DDT		3.00	3.62	
Rotenone		0.75	0.67	Passed
DDT			3.09	- Marila
ROTENONE — SULFUR — D	DT			
Graham Chemical Company				
Graham's Red Star Agricultural				
Rotenone Dust 1%, DDT 3%				
Rotenone		1.00	0.32	Deficient
Sulfur		15.00	9.79	
DDT		3.00	0.71	
Rotenone		1.00	0.32	Deficient
Sulfur			9.93	203
DDT		3.00	1.14	
Rotenone			0.71	Deficient
Sulfur DDT			17.02 3.10	
001		3.00	3.10	
Rotenone		1.00	1.04	Deficient
Sulfur		15.00	14.58	
DDT		3.00	2.66	

Rotenone Dust 1%, DDT 3% (Continued)   Rotenone Dust 1%, DDT 3% (Continued)   Rotenone	Nanufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Rotenone Dust 1 1%, DDT 3% (Continued)         1.00         0.89         Passed           Sulfur         15.00         17.69         17.69         DDT         3.00         3.44           Rotenone         1.00         0.94         Passed         Sulfur         15.00         16.37         DDT         3.00         2.87           Rotenone         1.00         0.82         Passed         Sulfur         15.00         17.74         DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient         Sulfur         15.00         6.35         DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient         Sulfur         15.00         9.85         DDT         3.00         1.27           Rotenone         1.00         0.92         Deficient         Sulfur         15.00         9.85         DDT         3.00         1.27           Rotenone         1.00         0.92         Deficient         Sulfur         15.00         14.25         DDT         3.00         2.70         Rotenone         1.00         0.37         Deficient         Sulfur         15.00         8.67         DDT         3.00         2.14	Graham's Rod Star Agricultural			White is a series
Sulfur         15.00         17.69           DDT         3.00         3.44           Rotenone         1.00         0.94         Passed           Sulfur         15.00         16.37           DDT         3.00         2.87           Rotenone         1.00         0.82         Passed           Sulfur         15.00         17.74           DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35         DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient         Sulfur         15.00         9.85         DDT         DDT         3.00         1.27         Rotenone         1.00         0.92         Deficient         Deficient         Sulfur         15.00         9.85         DDT         3.00         2.70         Rotenone         1.00         0.92         Deficient         Sulfur         15.00         4.63         DDT         3.00         2.70         Rotenone         1.00         0.37         Deficient         Deficient         Sulfur         15.00         9.42         DDT         3.00         1.28         Rotenone </th <th></th> <th>d)</th> <th></th> <th></th>		d)		
DDT   3.00   3.44   Rotenone   1.00   0.94   Passed   Sulfur   15.00   16.37   DDT   3.00   2.87   Rotenone   1.00   0.82   Passed   Sulfur   15.00   17.74   DDT   3.00   3.31   Rotenone   1.00   0.26   Deficient   Sulfur   15.00   6.35   DDT   3.00   1.14   Rotenone   1.00   0.36   Deficient   Sulfur   15.00   9.85   DDT   3.00   1.27   Rotenone   1.00   0.92   Deficient   Sulfur   15.00   14.25   DDT   3.00   2.70   Rotenone   1.00   0.16   Deficient   Sulfur   15.00   3.67   DDT   3.00   2.70   Rotenone   1.00   0.16   Deficient   Sulfur   15.00   8.67   DDT   3.00   2.14   Rotenone   1.00   0.37   Deficient   Sulfur   15.00   9.42   DDT   3.00   1.28   Rotenone   1.00   0.67   Deficient   Sulfur   15.00   9.42   DDT   3.00   2.49   Rotenone   1.00   0.67   Deficient   Sulfur   15.00   9.68   DDT   3.00   2.49   Rotenone   1.00   0.35   Deficient   Sulfur   15.00   9.68   DDT   3.00   2.49   Rotenone   1.00   0.35   Deficient   Sulfur   15.00   9.68   DDT   3.00   2.49   Rotenone   1.00   0.35   Deficient   Sulfur   15.00   9.68   DDT   3.00   2.49   Rotenone   1.00   0.35   Deficient   Sulfur   15.00   4.63   DDT   3.00   1.20   Rotenone   1.00   0.25   Deficient   Sulfur   15.00   4.63   DDT   3.00   1.20   Rotenone   1.00   0.25   Deficient   Sulfur   15.00   4.63   DDT   3.00   1.20   Rotenone   1.00   0.25   Deficient   Sulfur   15.00   1.20	Rotenone	1.00	0.89	Passed
Rotenone         1.00         0.94         Passed           Sulfur         15.00         16.37           DDT         3.00         2.87           Rotenone         1.00         0.82         Passed           Sulfur         15.00         17.74           DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35         DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient         Sulfur         15.00         9.85         DDT         9.85         DDT         DDT         3.00         1.27         Deficient         Sulfur         15.00         9.85         DDT         DDT         3.00         2.70         Deficient         Sulfur         15.00         14.25         DDT         DDT         3.00         2.70         Rotenone         1.00         0.16         Deficient         Deficient         Sulfur         15.00         9.42         DDT         3.00         2.14         Rotenone         1.00         0.67         Deficient         Sulfur         15.00         9.68         DDT         3.00         2.49         Rotenone         1.00 <td>Sulfur</td> <td>15.00</td> <td>17.69</td> <td></td>	Sulfur	15.00	17.69	
Sulfur         15.00         16.37           DDT         3.00         2.87           Rotenone         1.00         0.82         Passed           Sulfur         15.00         17.74           DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35           DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT           Rotenone         1.00         0.92         Deficient           Sulfur         15.00         14.25         DDT         DDT         3.00         2.70           Rotenone         1.00         0.16         Deficient         Deficient           Sulfur         15.00         8.67         DDT         3.00         2.14           Rotenone         1.00         0.37         Deficient           Sulfur         15.00         9.42         DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68         DDT	DDT	3.00	3.44	
DDT         3.00         2.87           Rotenone         1.00         0.82         Passed           Sulfur         15.00         17.74           DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35         DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT         DDT         2.70           Rotenone         1.00         0.92         Deficient         2.70         Deficient         3.00         2.70         Deficient         2.70         Deficient         2.70         Deficient         3.00         2.70         Deficient         2.70         Deficient         2.70         Deficient         3.00         2.14         Deficient         3.00         2.14         Deficient         3.00         2.14         Deficient         3.00         2.14         Deficient         3.00         1.28         Deficient	Rotenone	1.00	0.94	Passed
DDT         3.00         2.87           Rotenone         1.00         0.82         Passed           Sulfur         15.00         17.74           DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35         DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT         DDT         2.70           Rotenone         1.00         0.92         Deficient         2.70         Deficient         3.00         2.70         Deficient         2.70         Deficient         2.70         Deficient         3.00         2.70         Deficient         2.70         Deficient         2.70         Deficient         3.00         2.14         Deficient         3.00         2.14         Deficient         3.00         2.14         Deficient         3.00         2.14         Deficient         3.00         1.28         Deficient	Sulfur	15.00	16.37	
Sulfur         15.00         17.74           DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35         DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT         2.70           Rotenone         1.00         0.92         Deficient           Sulfur         15.00         14.25         14.25           DDT         3.00         2.70           Rotenone         1.00         0.16         Deficient           Sulfur         15.00         8.67         15.00         2.14           Rotenone         1.00         0.37         Deficient           Sulfur         15.00         9.42         2.00           DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68         2.00           DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00			2.87	
Sulfur         15.00         17.74           DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35         DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT         2.70           Rotenone         1.00         0.92         Deficient           Sulfur         15.00         14.25         14.25           DDT         3.00         2.70           Rotenone         1.00         0.16         Deficient           Sulfur         15.00         8.67         15.00         2.14           Rotenone         1.00         0.37         Deficient           Sulfur         15.00         9.42         2.00           DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68         2.00           DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00	Peterson	1.00	0.92	Passad
DDT         3.00         3.31           Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35         DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT         2.70           Rotenone         1.00         0.92         Deficient           Sulfur         15.00         14.25         14.25         14.25           DDT         3.00         2.70 <td></td> <td></td> <td></td> <td>rasseu</td>				rasseu
Rotenone         1.00         0.26         Deficient           Sulfur         15.00         6.35           DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT           Rotenone         1.00         0.92         Deficient           Sulfur         15.00         14.25         DDT         DDT         Deficient           Sulfur         15.00         8.67         DDT         Deficient           Sulfur         15.00         8.67         DDT         Deficient           Sulfur         15.00         9.42         Deficient           Sulfur         15.00         9.42         Deficient           Sulfur         15.00         9.68         DDT         Deficient           Sulfur         15.00         9.68         DDT         Deficient           Sulfur         15.00         4.63         DDT         Deficient           Sulfur         15.00         4.63         DDT         Deficient           Rotenone         1.00         0.25         Deficient           Sulfur         15.00         4.63         DDT </td <td></td> <td></td> <td></td> <td></td>				
Sulfur       15.00       6.35         DDT       3.00       1.14         Rotenone       1.00       0.36       Deficient         Sulfur       15.00       9.85         DDT       3.00       1.27         Rotenone       1.00       0.92       Deficient         Sulfur       15.00       14.25         DDT       3.00       2.70         Rotenone       1.00       0.16       Deficient         Sulfur       15.00       8.67       DDT       Deficient         Sulfur       15.00       9.42       DDT       3.00       1.28         Rotenone       1.00       0.67       Deficient         Sulfur       15.00       9.68       DDT       3.00       2.49         Rotenone       1.00       0.35       Deficient         Sulfur       15.00       4.63       DDT       3.00       1.20         Rotenone       1.00       0.25       Deficient         Sulfur       15.00       4.63       DDT       DDT       3.00       1.20         Rotenone       1.00       0.25       Deficient       Deficient	DD1	3.00	3.31	
DDT         3.00         1.14           Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT         DDT         3.00         1.27           Rotenone         1.00         0.92         Deficient           Sulfur         15.00         14.25         14.25         14.25         14.25         15.00         14.25         15.00         16.67	Rotenone	1.00	0.26	Deficient
Rotenone         1.00         0.36         Deficient           Sulfur         15.00         9.85         DDT         3.00         1.27           Rotenone         1.00         0.92         Deficient         Sulfur         15.00         14.25         DDT         3.00         2.70         Deficient         Sulfur         15.00         8.67         DDT         Deficient         Deficient         Sulfur         15.00         8.67         DDT         Deficient         Sulfur         Deficient         Sulfur         Deficient         Sulfur         15.00         9.42         DDT         3.00         1.28         Deficient         Sulfur         15.00         9.68         DDT         3.00         2.49         Deficient         Sulfur         15.00         9.68         DDT         3.00         2.49         Deficient         Sulfur         15.00         4.63         DDT         3.00         1.20         Deficient         Sulfur         15.00         4.63         DDT         3.00         1.20         Deficient         Sulfur         15.00         4.63         DDT         Deficient         Sulfur         15.00         4.63         DDT         Deficient         Deficient         Sulfur         15.00         4.63         <	Sulfur	15.00	6.35	
Sulfur       15.00       9.85         DDT       3.00       1.27         Rotenone       1.00       0.92       Deficient         Sulfur       15.00       14.25         DDT       3.00       2.70         Rotenone       1.00       0.16       Deficient         Sulfur       15.00       8.67         DDT       3.00       2.14         Rotenone       1.00       0.37       Deficient         Sulfur       15.00       9.42         DDT       3.00       1.28         Rotenone       1.00       0.67       Deficient         Sulfur       15.00       9.68         DDT       3.00       2.49         Rotenone       1.00       0.35       Deficient         Sulfur       15.00       4.63         DDT       3.00       1.20         Rotenone       1.00       0.25       Deficient	DDT	3.00	1.14	
DDT         3.00         1.27           Rotenone         1.00         0.92         Deficient           Sulfur         15.00         14.25         14.25         14.25         15.00         14.25         15.00         14.25         15.00         14.25         15.00	Rotenone	1.00	0.36	Deficient
Rotenone         1.00         0.92         Deficient           Sulfur         15.00         14.25           DDT         3.00         2.70           Rotenone         1.00         0.16         Deficient           Sulfur         15.00         8.67         DDT         Deficient           Sulfur         1.00         0.37         Deficient         Deficient           Sulfur         15.00         9.42         DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68         DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63         DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient         Deficient	Sulfur	15.00	9.85	
Sulfur       15.00       14.25         DDT       3.00       2.70         Rotenone       1.00       0.16       Deficient         Sulfur       15.00       8.67         DDT       3.00       2.14         Rotenone       1.00       0.37       Deficient         Sulfur       15.00       9.42         DDT       3.00       1.28         Rotenone       1.00       0.67       Deficient         Sulfur       15.00       9.68         DDT       3.00       2.49         Rotenone       1.00       0.35       Deficient         Sulfur       15.00       4.63         DDT       3.00       1.20         Rotenone       1.00       0.25       Deficient	DDT	3.00	1.27	
Sulfur         15.00         14.25           DDT         3.00         2.70           Rotenone         1.00         0.16         Deficient           Sulfur         15.00         8.67         DDT         3.00         2.14           Rotenone         1.00         0.37         Deficient           Sulfur         15.00         9.42         9.42           DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68           DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient	Rotenone	1.00	0.92	Deficient
DDT         3.00         2.70           Rotenone         1.00         0.16         Deficient           Sulfur         15.00         8.67         DDT         3.00         2.14           Rotenone         1.00         0.37         Deficient           Sulfur         15.00         9.42         9.42           DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68           DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient			14.25	
Sulfur       15.00       8.67         DDT       3.00       2.14         Rotenone       1.00       0.37       Deficient         Sulfur       15.00       9.42         DDT       3.00       1.28         Rotenone       1.00       0.67       Deficient         Sulfur       15.00       9.68         DDT       3.00       2.49         Rotenone       1.00       0.35       Deficient         Sulfur       15.00       4.63         DDT       3.00       1.20         Rotenone       1.00       0.25       Deficient	DDT	3.00	2.70	
Sulfur       15.00       8.67         DDT       3.00       2.14         Rotenone       1.00       0.37       Deficient         Sulfur       15.00       9.42         DDT       3.00       1.28         Rotenone       1.00       0.67       Deficient         Sulfur       15.00       9.68         DDT       3.00       2.49         Rotenone       1.00       0.35       Deficient         Sulfur       15.00       4.63         DDT       3.00       1.20         Rotenone       1.00       0.25       Deficient	Patanana	1.00	0.16	Deficient
DDT         3.00         2.14           Rotenone         1.00         0.37         Deficient           Sulfur         15.00         9.42           DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68           DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient				Dentition
Rotenone         1.00         0.37         Deficient           Sulfur         15.00         9.42           DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68           DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient				
Sulfur       15.00       9.42         DDT       3.00       1.28         Rotenone       1.00       0.67       Deficient         Sulfur       15.00       9.68         DDT       3.00       2.49         Rotenone       1.00       0.35       Deficient         Sulfur       15.00       4.63         DDT       3.00       1.20         Rotenone       1.00       0.25       Deficient				
DDT         3.00         1.28           Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68           DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient	Rotenone			Deficient
Rotenone         1.00         0.67         Deficient           Sulfur         15.00         9.68           DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient				
Sulfur     15.00     9.68       DDT     3.00     2.49       Rotenone     1.00     0.35     Deficient       Sulfur     15.00     4.63       DDT     3.00     1.20       Rotenone     1.00     0.25     Deficient	DDT	3.00	1.28	
DDT         3.00         2.49           Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient	Rotenone	1.00	0.67	Deficient
Rotenone         1.00         0.35         Deficient           Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient	Sulfur	15.00	9.68	
Sulfur         15.00         4.63           DDT         3.00         1.20           Rotenone         1.00         0.25         Deficient	DDT	3.00	2.49	
Sulfur       15.00       4.63         DDT       3.00       1.20         Rotenone       1.00       0.25       Deficient	Rotenone	1.00	0.35	Deficient
DDT				
Note that the same that the sa				
Note that the same that the sa		100	0.25	Deficient
				Delicient
DDT 3.00 2.40	Sulfur			

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham's Red Star Agricultural			
Rotenone Dust 1%, DDT 3% (Continued)			
Rotenone	1.00	0.80	Deficient
Sulfur		13.74	
DDT		3.23	
Rotenone	1.00	0.55	Deficient
Sulfur	15.00	14.40	
DDT	3.00	2.43	
Rotenone	1.00	0.78	Deficient
Sulfur	15.00	17.31	
DDT	3.00	3.07	
Rotenone	1.00	0.91	Deficient
Sulfur	15.00	13.72	
DDT	3.00	2.85	
Rotenone	1.00	0.92	Deficient
Sulfur	15.00	13.97	
DDT	3.00	2.80	
Rotenone	1.00	0.37	Deficient
Sulfur	15.00	8.94	
DDT	3.00	2.13	
ROTENONE — SULFUR — PYRETHRINS			
eacoast Laboratories, Inc.			- Calland
win Light Two-Way Dust			
Rotenone	0.50	0.60	Passed
Sulfur	18.00	18.93	
Pyrethrins	0.10	0.08	
outhern Agricultural Chemicals, Inc.			
oyal Brand Rotenone & Pyrethrin for Mexican Bean Beetle Control			
Rotenone	0.50	0.50	Deficient
Sulfur	18.00	18.35	
Pyrethrins	0.035	Negative te	st
oyal Brand Ro-Ten-One 101			
Rotenone	1.01	1.18	Deficient
Sulfur	18.00	19.06	450
Pyrethrins	0.03	Negative tes	st

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Royal Brand Ro-Ten-One 101 (Continued)			
Rotenone	1.01	1.15	Deficient
Sulfur		12.71	Deficient
Pyrethrins		0.06	1404
outhern Agricultural Insecticides, Inc.			
SA-50 for Mexican Bean Beetle Control	0.50	0.11	2 1
Rotenone	0.50	0.66	Passed
Sulfur		17.57	
Pyrethrins	0.08	0.09	
Rotenone	0.50	0.57	Passed
Sulfur	18.00	19.04	
Pyrethrins	0.08	0.08	
Rotenone	0.50	0.35	Passed
Sulfur	18.00	17.73	
Pyrethrins	0.08	0.08	
SA-400 Rotenone and Pyrethrins for Bean Beetle Control Rotenone	0.50	0.33	Deficient
Sulfur	18.00	18.78	
Pyrethrins	0.10	0.08	
Rotenone	0,50	0.55	Passed
Sulfur		19.21	OF SCHOOLS
Pyrethrins		0.10	
SA-100 for Mexican Bean Beetle Control			
Rotenone	1.00	1.07	Passed
Sulfur		18.51	
Pyrethrins	0.08	0.08	
Rotenone	1.00	1.02	Passed
Sulfur		18.27	
Pyrethrins		0.10	
Rotenone	1.00	0.99	Passed
Sulfur		17.92	, 035Cu
Pyrethrins		0.10	
Total Supplies 1974	1.00	0.88	Passed
Rotenone		18.30	rasseu
Sulfur	18.00	10.30	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE — SULFUR — ORGANIC THIOCYN	ATES		
General Insecticide Company, Inc.			
Black Panther Dust			
Rotenone	0.75	0.51	Deficient
Sulfur	10.00	8.33	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.60	Passed
Sulfur	10.00	10.83	
Beta beta dithiocyano diethyl ether	0.20	0.37	
Rotenone	0.75	0.74	Passed
Sulfur	10.00	11.06	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.73	Passed
Sulfur	10.00	10.97	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.61	Passed
Sulfur	10.00	11.69	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.91	Passed
Sulfur	10.00	11.16	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.61	Passed
Sulfur	10.00	12.18	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.74	Passed
Sulfur	10.00	11.46	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.82	Passed
Sulfur	10.00	11.02	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.76	Passed
Sulfur	10.00	10.99	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.73	Passed
Sulfur	10.00	11.14	
Beta beta dithiocyano diethyl ether	0.20	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Black Panther Dust (Continued)			ANJUR - BROKES
Rotenone	0.75	0.69	Passed
Sulfur	10.00	11.46	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.85	Passed
Sulfur	10.00	11.78	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.70	Passed
Sulfur	10.00	11.87	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.70	Passed
Sulfur	10.00	11.03	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.73	Passed
Sulfur	10.00	11.49	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.66	Passed
Sulfur	10.00	11.21	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.73	Passed
Sulfur	10.00	10.66	
Beta beta dithiocyano diethyl ether	0.20	Present	
Rotenone	0.75	0.69	Passed
Sulfur	10.00	11.18	
Beta beta dithiocyano diethyl ether	0.20	Present	
Kentucky Color and Chemical Company, Inc.	,		
Shawnee Lethane 60 Rotenone-Sulfur Dust			
Rotenone	0.40	0.08	Deficient
Sulfur	15.00	13.31	tulled,
Beta thiocyano ethyl esters of aliphatic fatty acids containing 10 to 18 carbon atoms	0.75	Present	
ROTENONE — METHOXYCHLOR			
Pratt Food Company			
Pratt's Lice Killer			
Rotenone	1.00	0.90	Passed
Technical methoxychlor	0.50	0.55	

Manufacturers and Brands	THE COM	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE — COPPE	R			
J. M. Harris & Company				
Copper Dragon Dust				
Rotenone		0.75	0.53	Passed
Yellow cuprous oxide		4.50	5.13	
Rotenone		0,75	0.58	Passed
Yellow cuprous oxide			4.84	rassed
Tellow coproca oxide				
Rotenone			0.75	Passed
Yellow cuprous oxide	* ()	4.50	4.35	
B. G. Pratt Company				
Pratt's Tomato and Vegetable Dust				
Rotenone	(6)	0.75	0.83	Passed
Copper, as metallic		7.00	7.36	
POTENONE PUREDONIVI CYCLO	NIENIE DVD	FTUDING		
ROTENONE — PIPERONYL CYCLO	NENE - PTK	FINKINS		
B. G. Pratt Company				
DX Pratt's Spray				
Rotenone			Present	Passed
Piperonyl cyclonene			Present	
Pyrethrins	. 3	0.28	0.33	
DX Aero Spray				
Rotenone		0.128	Present	Passed
Piperonyl cyclonene		0.256	Present	
Pyrethrins		0.025	0.07	
ROTENONE - PIPERONYL CYCLO	NENE — PYR	ETHRINS — S	ULFUR	
Planters Chemical Corporation				
Planters P.D.Q. Bean & Garden Dus	st			
Rotenone	90.1	0.40	0.31	Passed
Piperonyl cyclonene			Present	to the second
Pyrethrins		0.03	0.049	
Sulfur	719.15	10.00	10.48	
Rotenone		0.40	0.48	Passed
Piperonyl cyclonene			Present	n daseu
Pyrethrins		0.03	0.042	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters P.D.Q. Bean & Garden Dust (Continue	d)		IONS ON
Rotenone	0.40	0.32	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.026	
Sulfur	10.00	10.34	
Rotenone	0.40	0.43	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins		0.042	
Sulfur	10.00	10.65	
Rotenone	0.40	0.31	Passed
Piperonyl cyclonene	0.37	Present	
Pyrethrins	0.03	0.024	
Sulfur	10.00	9.88	
Rotenone	0.40	0.39	Passed
Piperonyl cyclonene		Present	
Pyrethrins		0.03	
Sulfur	10.00	10.52	
ROTENONE — METHOXYCHLOR — ZINC			
E. I. du Pont de Nemours & Company			
Du Pont Garden Dust			
Rotenone	0.75	0.62	Passed
Methoxychlor	5.00	6.04	
Zinc, as metallic	1.20	1.88	
ROTENONE — ZINEB			
Miller Chemical & Fertilizer Corporation			
Miller Cucumber — Melon Dust			
Rotenone	1.00	0.95	Passed
Zinc ethylene bisdithiocarbamate	3.90	4.36	
Rotenone	1.00	0.90	Passed
Zinc ethylene bisdithiocarbamate	3.90	4.13	
Rotenone	1.00	0.82	Passed
Zinc ethylene bisdithiocarbamate		4.86	1 44504
Sears, Roebuck and Company			
Cross Country Garden Spray	1.50	1.07	D.C.
Rotenone	1.50	1.27	Deficient
Zinc ethylene bisdithiocarbamate	9.70	6.70	

Manufacturers and Brands	Per Cent	Found Per Cent	Decisions
ROTENONE — ZINEB — PYRETHRINS — SULFUR			
Swift and Company			
Endopest 3-Way Garden Dust			
Rotenone	1.00	0.71	Deficient
Zinc ethylene bisdithiocarbamate	3.25	3.18	
Pyrethrins	0.10	0.09	
Sulfur	10.00	10.00	
Rotenone	1.00	0.94	Deficient
Zinc ethylene bisdithiocarbamate	3.25	4.56	
Pyrethrins	0.10	0.037	
Sulfur	10.00	10.47	
ROTENONE — ZERLATE — SULFUR			
Swift and Company			
Endopest 3-Way Garden Defense			
Rotenone	1.25	1.07	Passed
Zinc dimethyl dithiocarbamate	4.00	5.09	
Sulfur	15.00	15.97	
ROTENONE — SODIUM FLUOSILICATE — ORGANIC THIOCYANATES — SULFUR			
Carbola Chemical Company			
CCC Louse Killer			
Rotenone	0.40	0.31	Passed
Sodium fluosilicate	10.00	9.50	
Beta thiocyanoethyl esters of mixed fatty acids averaging 10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.51	
HARM SERVICE			
Rotenone	0.40	0.25	Deficient
Sodium fluosilicate	10.00	8.73	
Beta thiocyanoethyl esters of mixed fatty acids averaging 10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.49	
Rotenone	0.40	0.25	Deficient
Sodium fluosilicate		6.65	- Date of the State of the Stat
Beta thiocyanoethyl esters of mixed fatty	- 371		
acids averaging 10 to 18 carbon atoms	0.75	Present	
Sulfur	15.00	15.90	

Manufacturers	and Brands	Section of the Control	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE	— NAPHTHALENE	— SULFUR			
William Coope	r and Nephews				
Dri-Kil Insectio					
Rotenone			0.10	Present	Passed
	ene		4.00	Present	
Sulfur			10.00	10.32	
ROTENONE -	DDT - PYRETHRINS	S — SULFUR			
Graham Chemi	ical Company				
	Star Agricultural Ro	tenone Dust 1	%		
			1.00	0.42	Deficient
DDT			3.00	1.38	
Pyrethrins		•	0.08	Negative t	est
Sulfur			15.00	9.70	
Rotenone			1.00	0.85	Deficient
DDT			3.00	2.85	
Pyrethrins			0.08	Negative 1	test
Sulfur			15.00	13.95	
Rotenone		50.51	1.00	0.97	Deficient
DDT			3.00	2.87	
Pyrethrins			0.08	Negative t	test
Sulfur			15.00	13.82	
Rotenone	~~~~~~		1.00	0.54	Deficient
DDT			3.00	1.74	
	2000 100 100 100 100 100 100 100 100 100		0.08	0.06	
Sulfur			15.00	9.16	
Rotenone	*		1.00	0.34	Deficient
DDT		(0.2)	3.00	1.34	
Pyrethrins			0.08	0.033	
Sulfur				9.55	
Rotenone			1.00	0.35	Deficient
DDT	A A A A A A A A A A A A A A A A A A A		3.00	1.47	
Pyrethrins	·		. 0.08	Negative t	test
Sulfur			15.00	9.37	
Rotenone		A-AI	1.00	1.00	Deficient
			3.00	3.70	
				Negative t	est
Sulfur		110001	15.00	13.44	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham's Red Star Agricultural			
Rotenone Dust 1% (Continued)			
Rotenone	1.00	0.99	Deficient
DDT	3.00	2.80	
Pyrethrins	0.08	0.04	
Sulfur	15.00	13.92	
Rotenone	1.00	0.82	Deficient
DDT	3.00	2.86	
Pyrethrins		Negative	test
Sulfur	15.00	13.18	
OTENONE — DDT — PYRETHRINS — P	PIPERONYL CYCLONE	NE — SULFUI	
lanters Chemical Corporation	-0		h-cust:
Planters PDQ Triple Dust			
Rotenone	0.25	0.35	Passed
DDT		3.11	
Pyrethrins		0.05	
Piperonyl cyclonene		Present	
Sulfur		50.56	
Rotenone	0.25	0.22	Deficient
DDT		3.04	and the same of th
Pyrethrins		0.08	
Piperonyl cyclonene		Present	
Sulfur		43.22	
OTENONE — DDT — COPPER — MANO	GANESE - SIII FIID		
outhern Agricultural Insecticides, Inc.	SANESE - SOLI OR		
ole Bean Dust			
Rotenone	1.00	0.82	Deficient
DDT	3.00	3.45	
Copper	3.00	3.34	
Manganese	1.00	Present	
Sulfur	60.00	-54.32	
Rotenone	1.00	1.05	Passed
DDT		3.42	
Copper	3.00	3.42	
Manganese	1.00	Present	
Sulfur		57.42	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE — DDT — COPPER			
Ralston Purina Company			
Purina Special Garden Dust			
Rotenone	0.75	Trace	Deficient
DDT	3.00	3.62	
Yellow cuprous oxide	6.75	6.10	
Total chloroform extractives	5.00	5.29	
100			
ROTENONE — COPPER — ORGANIC THIOCYAN	ATES		
Carbola Chemical Company, Inc.			
CCC Copper Rote			
Rotenone	0.40	0.10	Deficient
Copper as metallic (from oxychloride sulfate)	6.00	5.74	
Beta thiocyanoethyl esters of mixed fatty			
acids averaging 10 to 18 carbon atoms	0.75	Present	
Rotenone	0.40	0.15	Deficient
Copper as metallic	. 0.40	0.15	Deficient
(from oxychloride sulfate)	6.00	6.25	
Beta thiocyanoethyl esters of mixed fatty	0.75	Nr	viargos
acids averaging 10 to 18 carbon atoms	0.75	Negative test	
Rigo Manufacturing Company			
Kill-Ko 3 in 1 Garden Dust			
Rotenone	0.40	0.32	Passed
Yellow cuprous oxide	. 0.40	0.52	rasseu
(expressed as metallic)	4.10	4.03	
Beta thiocyanoethyl esters of aliphatic fatty acids containing 10 to 18 carbon atoms	0.75	Present	
acids comaining 10 to 10 carbon alonis	0.75	rreseni	
Rotenone	0.40	0.25	Passed
Yellow cuprous oxide			
(expressed as metallic)	4.00	3.98	
Beta thiocyanoethyl esters of aliphatic fatty acids containing 10 to 18 carbon atoms	0.75	Present	
The first the same of the same			
Rotenone	0.40	0.24	Passed
Yellow cuprous oxide (expressed as metallic)	4.00	4.13	
Beta thiocyanoethyl esters of aliphatic fatty		-	
acids containing 10 to 18 carbon atoms	0.75	Present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE — COPPER — PYRETHRINS — PIPE SODIUM FLUOALUMINATE — ORGANIC			
Ralston Purina Company			
Purina Garden Dust			
Rotenone	0.25	Present	Passed
Copper, as metallic	5.00	5.78	
Pyrethrins		0.055	
Piperonyl cyclonene		Present	
Sodium fluoaluminate		25.42	
Beta beta dithiocyano diethyl ether	1.40	2.02	
Rotenone	0.25	Present	Passed
Copper, as metallic	5.00	5.85	
Pyrethrins	0.05	0.067	
Piperonyl cyclonene	0.50	Present	
Sodium fluoaluminate	25.00	25.66	
Beta beta dithiocyano diethyl ether	1.40	Present	
ROTENONE - PYRETHRINS - COPPER - SUL	FUR - ZINC		
California Spray-Chemical Corporation			
Botano Garden Dust			
Rotenone	0.50	Present	Deficient
Pyrethrins	0.10	0.032	
Basic copper—zinc sulfate	16.60		
Copper, as metallic	3.50	3.87	
Zinc, as metallic	3.50	4.23	
Sulfur	20.00	20.81	
ROTENONE — DDT — METHYL NAPHTHALENE — PINE OIL — PYRETHRINS			
Re-Mark Chemical Company, Inc.			
Monder Garden Spray			
Rotenone	0.60	Present	Deficient
DDT	10.80	9.59	
.Methyl naphthalenes	20.60	Present	
Pine oil	7.90	Present	
Pyrethrins	0.20	0.195	
SABADILLA			
Farmers Cooperative Exchange, Inc.			
F.C.X. Saba-Dil No. 10			
Sabadilla seed	10.00		Passed
Sabadilla alkaloids	0.30	0.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	<b>Decisions</b>
F.C.X. Saba-Dil No. 10 (Continued)			
Sabadilla seed	10.00		Passed
Sabadilla alkaloids	0.30	0.35	
Sabadilla seed	10.00		Passed
Sabadilla alkaloids	0.30	0.45	
F.C.X. Saba-Dil No. 10			
Sabadilla seed	10.00		Passed
Sabadilla alkaloids	0.40	0.51	
Sabadilla seed	10.00		Passed
Sabadilla alkaloids	0.40	0.55	
Kentucky Color & Chemical Company, Inc.			
Shawnee Activated Sabadilla Dust			
Sabadilla seed	10.00		Passed
Sabadilla alkaloids	0.40	0.53	
Sabadilla seed	10.00		Misbranded
Sabadilla alkaloids	0.40	0.47	
Daly-Herring Company			
Dee Aitch 20% Sabadilla (Seed) Dust			
Sabadilla seed	20.00		Passed
Sabadilla alkaloids	<b>0.80</b>	0.73	
Sabadilla seed	20.00		Passed
Sabadilla alkaloids	0.80	0.93	
Sabadilla seed	20.00		Passed
Sabadilla alkaloids	0.80	1.02	
Farmers Insecticide Company			
20% Sabadilla Dust			
Sabadilla alkaloids	0.80	0.95	Passed
Maxwell Insecticide Company			
MS-20 — 20% Sabadilla Dust			
Sabadilla seed	20.00		Passed
Sabadilla alkaloids		0.79	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
MS-20 — 20% Sabadilla Dust (Continued)			
Sabadilla seed	20.00		Passed
Sabadilla alkaloids	0.80	0.80	
Sabadilla seed	20.00		Passed
Sabadilla alkaloids		0.88	
Sabadilla seed	20.00		Passed
Sabadilla alkaloids		1.01	
Sabadilla seed	20.00		Passed
Sabadilla alkaloids		0.94	, usseu
Pearson & Company			
Red Devil Dust			
Sabadilla alkaloids	0.80	0.00	Daniel
do		0.98 0.95	Passed Passed
		0.70	1 03300
Woolfolk Chemical Works			
10% Sabane Dust			
Sabadilla alkaloids derived from 20% Sabadilla seed	0.80	1.01	Passed
SULFUR			
ears, Roebuck & Company			
Cross Country Wettable Dusting Sulfur			
Sulfur	95.00	95.65	Passed
do	95.00	94.56	Passed
TOXAPHENE			
Acme Fertilizer Company			
Acme 20% Toxaphene Dust			
Toxaphene	20.00	20.60	Passed
do	20.00	20.43	Passed'
do	20.00	20.43	Passed
do	20.00	20.32	Passed
Apex Chemical Company			
oxaphene "20" Dust			
Toxaphene	20.00	19.40	Passed
do	20.00	19.75	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Toxaphene "20" Dust (Continued)			
do	20.00	19.69	Passed
do	20.00	20.06	Passed
Atlas Chemical Corporation			
Atlas Toxaphene Cotton Dust 20-80			
Toxaphene	20.00	22.03	Passed
do	20.00	20.32	Passed
do	20.00	20.46	Passed
California Spray-Chemical Corporation			
Alltox 20 Dust			
Toxaphene	20.00	21.32	Passed
do	20.00	19.32	Passed
do	20.00	20.17	Passed
do	20.00	20.00	Passed
do	20.00	19.46	Passed
do	20.00	18.60	Deficient
do		17,71	Deficient
do	20.00	18.92	Deficient
Alltox 6 Spray		PERM	
Toxaphene	58.50	64.06	Passed
Cape Fear Chemicals, Inc.		of partners of	
Tiger Brand 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.34	Passed
do	20.00	20.00	Passed
do	20.00	19.46	Passed
do	20.00	19.29	Passed
do	20.00	19.75	Passed
do	20.00	19.52	Passed
do	20.00	19.14	Passed
Carolina Chemicals, Inc.			
Flight Toxaphene Dust 20-0			
Toxaphene	20.00	19.46	Passed
do	20.00	19.17	Passed
do	20.00	20.00	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carter Insecticide & Chemical Company, Inc.			
Carolina Brand 20% Toxaphene Cotton Dust			
Toxaphene	20.00	19.69	Passed
do		19.75	Passed
do	20.00	19.46	Passed
do		20.37	Passed
do		20.03	Passed
do		20.32	Passed
Chipman Chemical Company, Inc.			
Chipman 20% Toxaphene Dust			
Toxaphene	20.00	19.89	Passed
do	20.00	20.78	Passed
do	20.00	20.75	Passed
do	20.00	19.89	Passed
Daly-Herring Company			
Dee Aitch 20% Toxaphene Dust			
The Property of the Party of th			200
Toxaphene		18.97	Deficient
do		18.94	Deficient
do		19.89	Passed
do	20.00	19.52	Passed
Farmers Cooperative Exchange, Inc.			
C.X. 20-0 Cotton Dust			
Toxaphene	20.00	20.32	Passed
do	20.00	20.17	Passed
do	20.00	20.03	Passed
do	20.00	21.43	Passed
do		20.06	Passed
do		19.75	Passed
do	20.00	19.46	Passed
do	20.00	20.32	Passed
do	20.00	21.32	Passed
do	20.00	19.52	Passed
do	20.00	19.32	Passed
do	20.00	20.89	Passed
do	20.00	21.66	Passed
do	20.00	19.12	Passed
do	20.00	19.06	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
F.C.X. 20-0 Cotton Dust (Continued)			
do	20.00	20.83	Passed
do	20.00	19.34	Passed
do	20.00	19.75	Passed
do	20.00	19.12	Passed
do	20.00	20.03	Passed
do	20.00	18.74	Deficient
Farmers Insecticide Company			
Farmers Brand 20% Toxaphene			
Toxaphene	20.00	18.60	Deficient
Geigy Company, Inc.			
Gy-Phene "20" Toxaphene Dust			
Toxaphene	20.00	20.03	Passed
do	20.00	21.75	Passed
do	20.00	20.03	Passed
do	20.00	19.80	Passed
do	20.00	20.89	Passed
do	20.00	20.23	Passed
do	20.00	19.75	Passed
do	20.00	19.75	Passed
do	20.00	21.46	Passed
do	20.00	19.72	Passed
do	20.00	21.55	Passed
do	20.00	20.12	Passed
do	20.00	20.60	Passed
do	20.00	20.03	Passed
do	20.00	20.55	Passed
do	20.00	19.52	Passed
do	20.00	20.52	Passed
do	20.00	21.18	Passed
do	20.00	20.20	Passed
do	20.00	20.03	Passed
do	20.00	20.03	Passed
Gy-Phene "40-W"			
Toxaphene	40.00	38.65	Passed
do	40.00	39.57	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
dowerton Gowen Company			
Gowen's Toxaphene Dust 20%			
Toxaphene	20.00	20.03	Passed
do		19.95	Passed
do	20.00	19.49	Passed
ohnson Cotton Company			
outhern Quality 20% Toxaphene			
Toxaphene	20.00	19.32	Passed
lathieson Agricultural Chemicals			
athieson Toxaphene "20" Dust			
Toxaphene	20.00	19.66	Passed
do	20.00	19.34	Passed
do	20.00	20.32	Passed
do	20.00	20.89	Passed
do	20.00	21.12	Passed
do	20.00	20.23	Passed
do	20.00	20.46	Passed
do	20.00	20.43	Passed
do	20.00	19.54	Passed
do	20.00	19.46	Passed
do	20.00	19.17	Passed
do	20.00	20.60	Passed
do	20.00	19.54	Passed
do	20.00	20.00	Passed
do	20.00	19.40	Passed
do	20.00	19.77	Passed
do	20.00	20.17	Passed
do	20.00	17.46	Deficient
Naxwell Insecticide Company			
Naxwell 20% Toxaphene Dust			
Toxaphene	20.00	19.32	Passed
do	20.00	20.23	Passed
do	20.00	20.32	Passed'
do	20.00	20.06	Passed'
do	20.00	19.17	Passed
do	20.00	20.17	Passed'
do	20.00	20.43	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell 20% Toxaphene Dust (Con	itinued)		
do	20.00	19.57	Passed
do	20.00	20.03	Passed
do	20.00	19.75	Passed
do	20.00	19.46	Passed
do	20.00	20.20	Passed
do	20.00	20.40	Passed
do	20.00	20.26	Passed
do	20.00	20.17	Passed
do	20.00	19.46	Passed
do	20.00	20.00	Passed
do	20.00	18.92	Deficient
Ailler Chemical & Fertilizer Corpora	ition		
Miller 20% Toxaphene Dust			
Toxaphene	20.00	20.26	Passed
Naco Fertilizer Company			
Naco Toxaphene Dust 20-0			
Toxaphene	20.00	19.83	Passed
do	20.00	19.89	Passed
do	20.00	19.89	Passed
do	20.00	19.32	Passed
do	20.00	20.15	Passed
Parker Seed & Feed			
20% Toxaphene			
Toxaphene	20.00	19.03	Not registered
N. R. Peele Company			
Pelco 20% Toxaphene Dust			
Toxaphene	20.00	19.75	Passed
do		20.03	Passed
do	20.00	20.03	Passed
do	20.00	20.15	Passed
do	20.00	19.75	Passed
	20.00	19.32	Passed
do	20.00	19.17	Passed
do		19.89	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco 20% Toxaphene Dust (Continued)			
do	20.00	19.17	Passed
do	20.00	20.03	Passed
do	20.00	19.34	Passed
do	20.00	20.55	Passed
do	20.00	19.80	Passed
do	20.00	19.23	Passed
Planters Chemical Corporation			
Planters 20% Toxaphene Dust			
Toxaphene	20.00	19.89	Passed
do	20.00	20.75	Passed
do	20.00	19.60	Passed
do	20.00	19.75	Passed
do	20.00	19.06	Passed
do	20.00	22.46	Passed
do	20.00	19.75	Passed
do	20.00	20.75	Passed
1,	20.00	20.03	Passed
do	20.00	18.51	Deficient
Standard Fertilizer Company			
Gro-More Toxaphene "20" Dust			
Toxaphene	20.00	20.66	Passed
do	20.00	20.17	Passed
do	20.00	20.60	Passed
Gro-More Toxaphene Spray Concentrate			
Toxaphene	59.00	59.25	Passed
Stauffer Chemical Company			
Cotton Dust No. 81			
Toxaphene	20.00	20.69	Passed
do	20.00	20.80	Passed
Stevens Industries, Inc.			
Master Cotton Dust Toxaphene			

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 20% Toxaphene Dust			
Toxaphene	20.00	20.89	Passed
do		20.83	Passed
do	20.00	20.17	Passed
do	20.00	20.03	Passed
do	20.00	19.63	Passed
do	20.00	20.32	Passed
do	20.00	19.54	Passed
Superkill 60% Toxaphene			
Toxaphene	60.00	61.86	Passed
do	60.00	60.04	Passed
do	60.00	61.26	Passed
do	60.00	59.20	Passed
do	60.00	60.67	Passed
do	60.00	60.16	Passed
do	60.00	60.78	Passed
do	60.00	59.63	Passed
do	60.00	61.55	Passed
Tobacco By-Products & Chemical Corporation			
Black Leaf 20% Toxaphene Dust			
Toxaphene	20.00	20.12	Passed
do	20.00	20.03	Passed
do	20.00	19.89	Passed
do	20.00	18.89	Deficient
TOXAPHENE — BHC			
Agricultural Specialties			
Lintox Livestock Spray and Dip			
Toxaphene	44.00		Passed
Gamma isomer of BHC (from Lindane)	1.00		
Theoretical chlorine	30.21	31.19	
TOXAPHENE — PARATHION			
Southern Agricultural Insecticides, Inc.			
Pre-Heading Cabbage Dust with Toxaphene			
Toxaphene	10.00	9.92	Passed

Guaranteed Per Cent	Found Per Cent	Decisions
Continued)		
10.00	9.70	Passed
1.00	0.97	
10.00	9 77	Passed
	0.97	russed
20.00	20.00	Passed
40.00	41.66	
20.00	18.80	Deficient
40.00	44.90	
20.00	19.60	Passed
40.00	40.64	
20.00	19.46	Passed
40.00	41.90	
20.00	20.92	Passed
40.00	40.12	
20.00	20.71	Passed
40.00	41.26	
0.005	0.007	1000 000
0.025	0.027	Passed
	Per Cent  Continued)	Per Cent Per Cent  Continued)

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Seacoast Laboratories, Inc.		of the said	
Twin Light Rat-Bait			
Warfarin	0.025	0.026	Passed
ZINEB			
Cape Fear Chemicals, Inc.			
Tiger Brand 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.45	Passed
do		8.17	Passed
do		7.29	Passed
do	6.50	7.79	Passed
Daly-Herring Company			
Dee Aitch 10% Dithane Dust	4.50	7.7/	
Zinc ethylene bisdithiocarbamate	6.50	7.76	Passed
E. I. du Pont de Nemours & Company			
Du Pont Fungicide A			
Zinc ethylene bisdithiocarbamate	65.00	74.60	Passed
Farmers Cooperative Exchange, Inc.			
F.C.X. 6.5% Zineb Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.96	Passed
do	6.50	8.82	Passed
do	6.50	8.30	Passed
do	6.50	7.09	Passed
do	6.50	7.92	Passed
do	6.50	8.11	Passed
do	6.50	7.44	Passed
do	6.50	7.98	Passed
do	6.50	8.04	Passed
do	6.50	7.45	Passed
do	6.50	8.13	Passed
Farmers Insecticide Company			
Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.43	Passed
Graham Chemical Company			
Red Star 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.04	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Molony Fertilizer Company			
Lightning Brand 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.52	Passed
W. R. Peele Company, Inc.			DESIGNATION .
Pelco Dithane Dust 10% Z-78			
Zinc ethylene bisdithiocarbamate	6.50	7.13	Passed
do	6.50	7.99	Passed
do	6.50	8.08	Passed
Planters Chemical Corporation			
Planters 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.01	Passed
do	6.50	8.13	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	8.30	Passed
do	6.50	8.01	Passed
Standard Fertilizer Company			
Gro-More-10% Dithane Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.84	Passed
Job P. Wyatt & Sons			
10% Parzate Dust			
Zinc ethylene bisdithiocarbamate	6.50	7.06	Passed
do	6.50	6.23	Passed
MISCELLANEOUS INORGANIC			
X-All Chemical Corporation			
X-All Roach Powder			
Boric Acid	93.00	93.01	Passed
American Cyanamid Company			
Cyanogas			
Calcium cyanide	42.00	37.22	Deficient
Acme Quality Paints, Inc.			
Acme Lime Sulfur			
Calcium polysulfides		72.49	Passed
Calcium thiosulfate	5.00	7.15	
Sulfur	5.00	8.95	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Boyle-Midway, Inc.			
Antrol, Thallium Type Ant Trap			
Thallium, as metallic	0.95	1.22	Passed
MISCELLANEOUS — ORGANIC			
Naco Fertilizer Company			
Naco 3% Aramite Dust			
Beta chlorethyl — beta, alpha methyl ethyl sulfite	3.00	4.44	Not registered
California Spray-Chemical Corporation			
Orthocide "50" Wettable			
Captan	50.00	55.45	Passed
do	50.00	58.76	Passed
Re-Mark Chemical Company, Inc.			
Nonder Fungicide			
Disodium ethylene bisdithiocarbamate	18.00	22.19	Passed
do		23.02	Passed
	10.00	20.02	. 00000
obacco By-Products & Chemical Corporation			
Black Leaf 50% Malathon Spray			and the state of t
Malathon	50.00	53.83	Passed
he Dill Company			
Odorall Crystalls			
Paradichlorobenzene	100.00	99.76	Passed
Pioneer Manufacturing Company			
Pentronol			
Pentachlorophenol	36.08		Passed
Other chlorophenols	4.92		
Theoretical chlorine		25.55	
California Spray-Chemical Corporation			
Volck Oil Spray			
Petroleum oils	97.00	97.73	Passed
	//.00	,,,,,	. 30000
Central Chemical Company			
Pinene			
Pine oil		80.17	Deficient
Soap	15.00	9.91	
Stanley Industries			
Poisoned Grain for Rats			
		0.37	





